Resource Allocation Review

Resource Contention
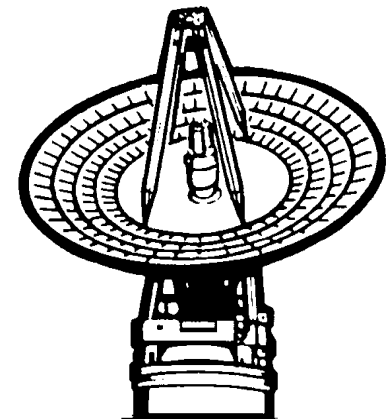
Version 2.0

2000 - 2009

Frank Leppla

August 3, 1999

Resource Allocation Review
Agenda

JPL

- ◆ **Loading Study**
    - – **Changes in Requirements**
    - – **DSN Antenna Implementation**
    - – **User / Mission Planning Set**
- ◆ **Periods of Contention**
- ◆ **Requirements Analysis and Recommendations**
    - – **2000 - 2002 Activities in Contention / Recommendations**

Resource Allocation Review
Loading Study

Changes in Requirements

- ### New / Cancelled Projects
  - Mars Express 2003 Orbiter launch 06/01/03
  - Deep Impact launch 01/01/04
  - Messenger launch 03/23/04
  - Space Technology 4 (Champollion) cancelled

- ### Changes in Requirement Phases
  - Chandra launch changed to 07/23/99
  - INTEGRAL launch changed to 09/01/01,EOPM to 10/31/03, EOEM to 10/31/06
  - Lunar-A launch changed to 02/03/03, EOPM to 09/21/03
  - Mars Polar Lander Surface Operations extended one month to 04/01/00
  - Microwave Anisotropy Probe EOEM to 02/08/06
  - MUSES-C launch changed to 07/05/02
  - SOHO EOEM changed to 05/02/03

Resource Allocation Review
Loading Study

Changes in Requirements (Continued)

◆ **Changes in DSN Resource Support Requests**
  – **Cassini added 34M requirements in 2000**
  – **Deep Space 1 added 34M requirements in 2000 and 2001**
  – **Galileo added 70M requirements in 2000**
  – **Genesis modified 26M requirements in 2001,2002 and 2003**
  – **GSSR added 70M requirements in 2000**
  – **Mars Surveyor 01 Lander modified 34M requirements in 2002**
  – **Stardust added 34M requirements in 2000**

Resource Allocation Review
Loading Study

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- ◆ **DSN Antenna Implementation**
  - – **No changes since last RARB meeting**

Resource Allocation Review
Loading Study

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TMOD Resource Implementation Planning Matrix									
Station	Subnet	First Delivery Date	S-Band Down	S-Band Up	X-Band Down	X-Band Up	Ka-Band Down	Ka-Band Up	Ku-Band Up and Down	Closed
DSS-14	70M	XXXX	XXXX	XXXX	XXXX	5/1/2000	10/1/2007	N/A	N/A	N/A
DSS-15	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	10/1/2004	N/A	N/A	N/A
DSS-16	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
DSS-23	11M	XXXX	N/A	N/A	XXXX	XXXX	N/A	N/A	XXXX	N/A
DSS-24	34B1	XXXX	XXXX	XXXX	XXXX	3/1/2004	3/1/2004	N/A	N/A	N/A
DSS-25	34B2	XXXX	N/A	N/A	XXXX	XXXX	XXXX	5/1/2001	N/A	N/A
DSS-26	34B2	8/1/2003	N/A	N/A	8/1/2003	8/1/2003	8/1/2003	N/A	N/A	N/A
DSS-27	34HSB	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
DSS-28	34B2	TBD	N/A	N/A	TBD	TBD	N/A	N/A	N/A	N/A
DSS-33	11M	XXXX	N/A	N/A	XXXX	XXXX	N/A	N/A	XXXX	N/A
DSS-34	34B1	XXXX	XXXX	XXXX	XXXX	XXXX	7/1/2003	N/A	N/A	N/A
DSS-42	34S	XXXX	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	12/17/1999
DSS-43	70M	XXXX	XXXX	XXXX	XXXX	11/1/2000	10/1/2008	N/A	N/A	N/A
DSS-45	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	10/1/2005	N/A	N/A	N/A
DSS-46	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A
DSS-53	11M	XXXX	N/A	N/A	XXXX	XXXX	N/A	N/A	XXXX	N/A
DSS-54	34B1	XXXX	XXXX	XXXX	XXXX	XXXX	7/1/2002	N/A	N/A	N/A
DSS-61	34S	XXXX	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	12/17/1999
DSS-63	70M	XXXX	XXXX	XXXX	XXXX	11/1/2001	10/1/2009	N/A	N/A	N/A
DSS-65	34HEF	XXXX	XXXX	N/A	XXXX	XXXX	10/1/2006	N/A	N/A	N/A
DSS-66	26M	XXXX	XXXX	XXXX	N/A	N/A	N/A	N/A	N/A	N/A

XXXX = Capability Currently Exists
N/A = Capability Not Planned

7/18/1999

Resource Allocation Review
Loading Study

		Major DSN Downtimes						
Year	Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
2000	DSS 14	70M X-Band Uplink	03/01/00	05/07/00	68	9-18	61	128
2000	DSS 16	Replace Servo Hydraulic Drive	08/21/00	09/17/00	28	34-37	234	261
2000	DSS 43	70M X-Band Uplink	08/14/00	10/22/00	70	33-42	227	296
2000	DSS 45	Replace S/R Drive	05/01/00	05/14/00	14	18-19	122	135
2000	DSS 63	Replace 70M Motor Control	07/10/00	07/30/00	21	28-30	192	212
2000	DSS 65	Replace S/R Drive	07/31/00	08/13/00	14	31-32	213	226
2001	DSS 15	Antenna Ctlr Replacement	04/30/01	05/27/01	28	18-21	120	147
2001	DSS 45	Antenna Ctlr Replacement	10/29/01	11/11/01	14	44-45	302	315
2001	DSS 63	70M X-Band Uplink	07/30/01	10/07/01	70	31-40	211	280
2002	DSS 14	Hydrostatic Bearing Runner Rehab	02/04/02	05/26/02	112	6-21	35	146
2002	DSS 43	Hydrostatic Bearing Runner Rehab	09/16/02	01/05/03	112	38-1	259	5
2002	DSS 66	Replace Servo Hydraulic Drive	09/02/02	09/29/02	28	36-39	245	272

Resource Allocation Review
Loading Study

DSN User / Mission Planning Set - Ongoing Projects

Project	Acronym	Launch or Start	EOPM	EOEM
DSN Host Country	DSS	--	--	--
DSN VLBI Clock Sync and Catalog M&E	DSN	--	--	--
DSS Maintenance	DSS	--	--	--
European VLBI Network	EVN	--	--	--
Radio Astronomy	RASA	--	--	--
Space Geodesy	OSSA	--	--	--
Voyager 2	VGR2	08/20/77	10/15/89	12/31/19
Voyager 1	VGR1	09/05/77	12/31/80	12/31/19
International Cometary Explorer	ICE	08/12/78	08/12/88	12/31/05
Goldstone Solar System Radar	GSSR	04/01/85	--	--
Galileo	GLL	10/18/89	12/07/97	03/11/01
Ulysses	ULS	10/06/90	09/11/95	12/30/01
ISTP - Geotail	GEOT	07/24/92	07/24/95	12/30/01
ISTP - Wind	WIND	11/01/94	11/01/97	12/30/01

Resource Allocation Review
Loading Study

DSN User / Mission Planning Set - Ongoing Projects
(Continued)

Project	Acronym	Launch or Start	EOPM	EOEM
Space VLBI	SVLB	02/01/95	09/30/01	- - -
ISTP - SOHO	SOHO	12/02/95	05/02/98	05/02/03
Near Earth Asteroid Rendezvous	NEAR	02/17/96	02/14/01	TBD
ISTP - Polar	POLR	02/22/96	08/23/97	12/30/01
Gravity Probe B	GRVB	06/01/96	12/31/01	TBD
Mars Global Surveyor	MGS	11/07/96	01/01/02	- - -
Highly Advanced Laboratory for Communicati	VSOP	02/12/97	09/30/01	- - -
Advance Composition Explorer	ACE	08/25/97	02/01/01	02/01/03
Cassini	CAS	10/15/97	06/30/08	06/30/10
Lunar Prospector	LPM	01/07/98	01/15/99	07/31/99
NOZOMI (Planet-B)	PLNB	07/03/98	TBD	TBD
Deep Space 1	DS1	10/24/98	09/19/99	11/30/01
Mars Climate Orbiter	M98O	12/11/98	12/01/04	TBD
Mars Polar Lander	M98L	01/03/99	02/29/00	04/01/00

Resource Allocation Review Loading Study

DSN User / Mission Planning Set - Ongoing Projects (Continued)

Project	Acronym	Launch or Start	EOPM	EOEM
Stardust	STAR	02/07/99	01/14/06	- - -
Chandra X-ray Observatory*	AXAF	07/23/99	TBD	TBD
Imager Magnetopause-to-Aurora Global Explo	IMAG	02/15/00	02/15/02	- - -
ISTP - Cluster II (First Launch)	CLU2	06/19/00	09/19/02	TBD
ISTP - Cluster II (Second Launch)	CLU2	07/19/00	10/19/02	TBD
Microwave Anisotropy Probe	MAP	11/08/00	02/08/03	02/08/06
Genesis	GSIS	01/07/01	09/07/03	- - -
Mars Surveyor 01 Orbiter	M01O	03/30/01	10/19/04	10/27/05
Mars Surveyor 01 Lander**	M01L	04/10/01	01/22/02	- - -
International Gamma Ray Astrophysics Lab*	INTG	09/01/01	10/31/03	10/31/06
Space Infrared Telescope Facility	SRTF	12/01/01	02/01/07	- - -
Comet Nucleus Tour (CONTOUR)	CNTR	06/26/02	08/31/08	TBD
Lunar - A*	LUNA	02/03/03	09/21/03	- - -
* Planning dates				
** Planned Landing Date - Surface Operations begin via Comm Relay				

Resource Allocation Review
Loading Study

DSN User / Mission Planning Set - Advanced Planning Projects

Project	Acronym	Launch or Start	EOPM	EOEM
Near Earth Asteroid Prospector	NEAP	09/01/01	07/12/02	07/01/03
RadioAstron*	RADA	10/01/02	10/01/07	TBD
MUSES - C*	MUSC	07/05/02	07/21/06	- - -
Rosetta	ROSE	01/22/03	07/07/13	- - -
Mars Surveyor 03 Lander**	M03L	05/28/03	12/20/03	06/17/04
Mars Express Orbiter	MEO	06/01/03	12/01/05	06/01/08
Space Technology 3	DS3	10/01/03	03/31/04	- - -
Europa Orbiter	EURO	11/18/03	05/31/09	TBD
Deep Impact	DEEP	01/01/04	07/04/05	---
Messenger	MESS	03/23/04	09/30/10	---

Resource Allocation Review
Loading Study

DSN User / Mission Planning Set - Advanced Planning Projects
(Continued)

Project	Acronym	Launch or Start	EOPM	EOEM
Pluto Kuiper Express	PKE	12/01/04	02/23/18	---
Mars 05 Lander	M05L	08/07/05	10/08/06	04/01/07
Mars 05 Orbiter	M05O	08/07/05	05/12/08	10/30/08
Highly Advanced Laboratory for Communications	VSP2	01/01/06	01/01/11	---
Solar Probe	SOLP	02/01/07	03/31/15	---
ARISE	ARSE	01/01/08	01/01/13	---

* Planning dates

** Planned Landing Date - Surface Operations begin via Comm Relay

Resource Allocation Review
Periods of Contention

Item	Year	Period	Weeks	Subnet
1	2000	February	05 - 08	DSS-14
2	2000	Mid-February	07 - 08	DSS-63
3	2000	Mid-February - April	07 - 17	DSS-43
4	2000	Mid-May - Mid-June	20 - 24	DSS-14
5	2000	Mid-July - Late August	28 - 34	DSS-14
6	2000	Late July	29 - 30	DSS-43
7	2000	Late October - Early November	43 - 44	DSS-14
8	2000	Mid-November - Mid-December	46 - 50	DSS-14
9	2000	Late December	52	DSS-14,63
10	2000	Mid-January - Late February	02 - 08	34HEF
11	2000	Late February - April	09 - 17	34HEF
12	2000	Late January - Mid-February	05 - 06	34BWG1
13	2000	Mid-March	12	DSS-34,54
14	2000	Early May	18 - 19	34BWG1

Resource Allocation Review
Periods of Contention
(Continued)

Item	Year	Period	Weeks	Subnet
15	2000	Late September	39	DSS-34,54
16	2000	Mid-November - December	45 - 52	34BWG1
17	2000	Mid-September - Mid-October	37 - 40	DSS-25
18	2000	Mid-November - December	45 - 52	DSS-25
19	2000	Mid-February - Late March	07 - 12	26M
20	2000	Early July - Early December	27- 49	DSS-16,66
21	2000	Late August - Mid-September	34 - 37	26M
22	2001	January - Mid-February	01 - 06	DSS-14
23	2001	Late January	04	DSS-43
24	2001	April	15 - 17	DSS-43
25	2001	July	27 - 30	DSS-63
26	2001	Late October	42 - 44	DSS-14
27	2001	January	01 - 04	34HEF

Resource Allocation Review
Periods of Contention
(Continued)

Item	Year	Period	Weeks	Subnet
28	2001	January - Mid-February	01 - 06	34BWG1
29	2001	Mid-February - Late March	08 - 12	34BWG1
30	2001	Early April	14 - 15	34BWG1
31	2001	May	19 - 21	34BWG1
32	2001	Early November	44 - 46	DSS-24
33	2001	Late November - December	48 - 52	DSS-34,54
34	2001	Late November - December	48 - 52	DSS-25
35	2001	January - Early February	01 - 06	26M
36	2001	Mid-April - Mid-July	16 - 28	26M
37	2002	Mid-January	03 - 04	DSS-14
38	2002	Late October - Early November	43 - 45	DSS-14
39	2002	January	01, 03, 04	34H,B1,B2
40	2002	June - Mid-July	23 - 28	34H,B1,B2

Resource Allocation Review
Requirements Analysis and Recommendations

2000 Activities in Contention / Recommendations

Resource Allocation Review
Requirements Analysis and Recommendations
70M Weekly Contention Percent - 2000
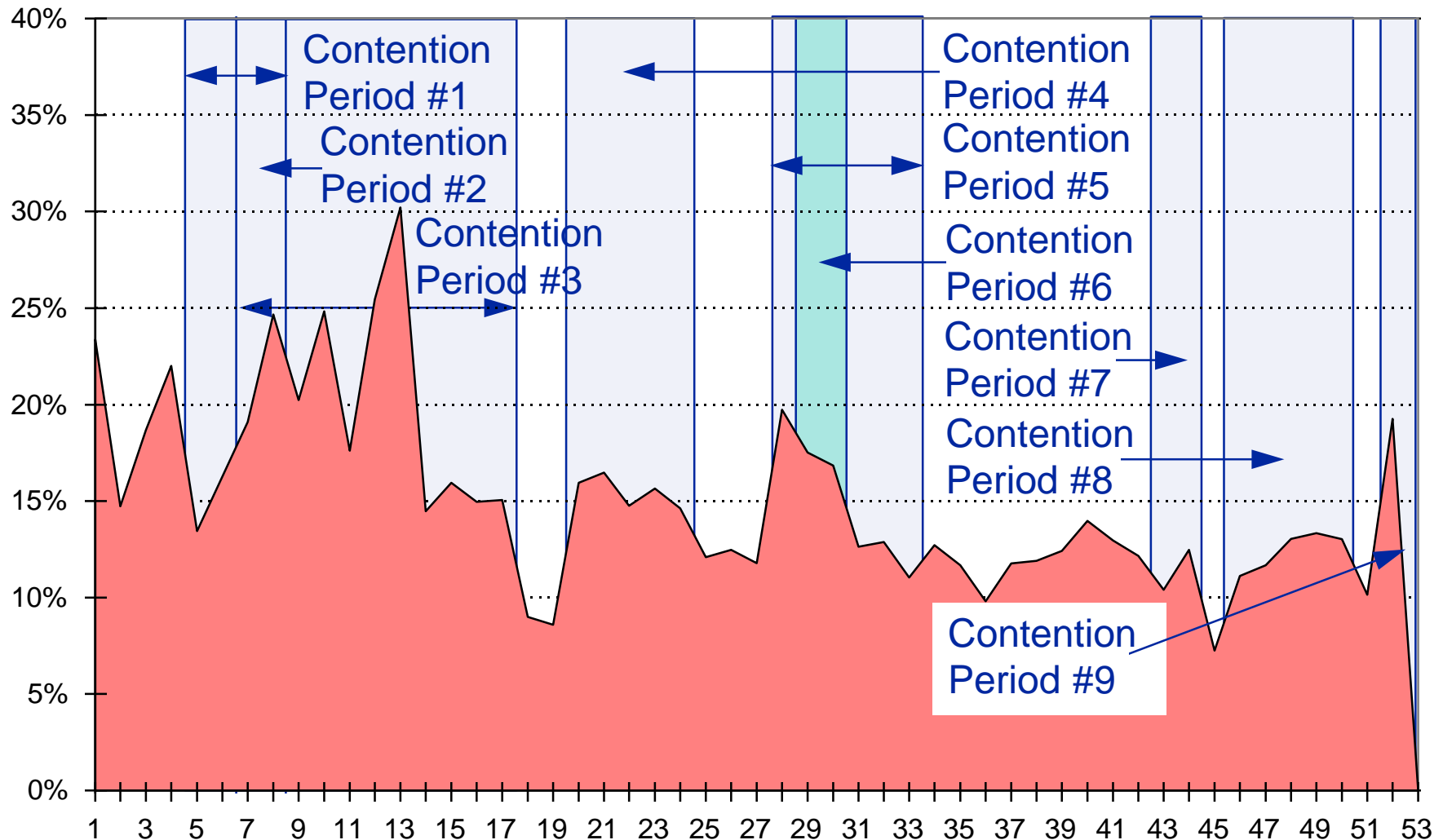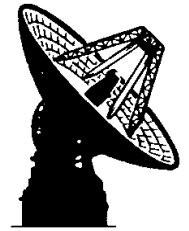
Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #01 - DSS-14
February (Weeks 05 - 08)
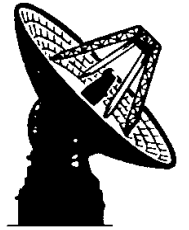
| USER	CONTENTION	PASSES/WK
DSS	MAINTENANCE	2 - 3
GLL	ENCOUNTER/ROUTINE SUPPORT	2 - 4
M98/MGS	SURFACE OPS/MGS MAPPING	2 - 3
NEAR	PRIME SCIENCE SUPPORT	2 - 3
RASA	PLANET R/AST, 9 HRS	1
RASA	M-WAVE SPECT, 9 HRS	1
SVLB	ROUTINE SUPPORT	4 - 5

| USER	RECOMMENDATION
DSS	REQUESTED SUPPORT
GLL	REQUESTED SUPPORT
M98/MGS	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
RASA	REDUCE TO 1 SUPPORT ON ALTERNATE WKS (GLL, NEAR)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK (GLL, NEAR)

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #02 - DSS-63
Mid-February (Weeks 07 - 08)

USER	CONTENTION	PASSES/WK
GLL	ENCOUNTER/OTM/ROUTINE SUPPORT	2 - 3
M98/MGS	SURFACE OPS/MGS MAPPING	2 - 3
NEAR	PRIME SCIENCE SUPPORT	2 - 3
RASA	RA500 WCB, 24 HRS, DSS-14/63, WK 08	1
RASA	RADIO STARS WCB, 14 HRS, DSS-14/63, WK 07	1
SVLB	ROUTINE SUPPORT	4 - 5

USER	RECOMMENDATION
GLL	REQUESTED SUPPORT
M98/MGS	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
RASA	RESCHEDULE TO WK 02 & 03 (GLL, NEAR)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK (GLL, NEAR)

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #03 - DSS-43
Mid-February - April (Weeks 07 - 17)
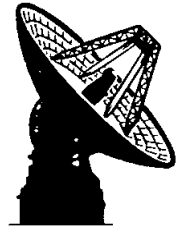
USER	CONTENTION	PASSES/WK
GLL	ENCOUNTER/ROUTINE SUPPORT	3 - 6
M98/MGS	SURFACE OPS/MGS MAPPING - WKS 07 - 13	2 - 3
NEAR	CRITICAL P/B, 12 HRS, WK 07 (DOY 046)	1
NEAR	PRIME SCIENCE SUPPORT	2 - 4
SVLB	ROUTINE SUPPORT	3 - 4
ULYS	ROUTINE SUPPORT, 10 HRS	2

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #03 - DSS-43
Mid-February - April (Weeks 07 - 17) (Continued)
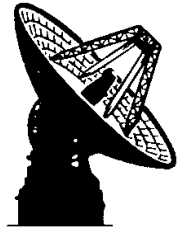
USER	RECOMMENDATION
GLL	DELETE ROUTINE SUPPORT ON DOY 047 (NEAR)
	ACCOMMODATE M98 AND NEAR CRITICAL P/B SUPPORT
M98/MGS	START SUPPORT ON DOY 047 AFTER 0615
	ACCOMMODATE NEAR CRITICAL P/B SUPPORT
NEAR	REQUESTED SUPPORT
SVLB	REDUCE TO 1 - 2 SUPPORTS/WK - WKS 09 - 13
ULYS	DELETE TWO DSS-43 10 HR SUPPORTS PER WEEK (GLL,M98,NEAR)
	ADD SEVEN 4 HR SUPPORTS / WK AT DSS-24
	TO AUGMENT THE SEVEN 8 HR SUPPORTS/WK - DSS-34

NOTE: DSS-14 IS DOWN WEEKS 09 - 18 FOR X-BAND UPLINK

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Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #04 - DSS-14
Mid-May - Mid-June (Weeks 20 - 24)
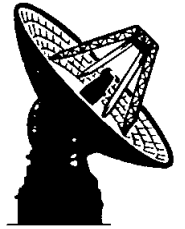
USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT	4 - 5
NEAR	ROUTINE SUPPORT	2 - 3
RASA	PLANET R/AST, 9 HRS	1
RASA	M-WAVE SPECT , 9 HRS	1
SVLB	ROUTINE SUPPORT	4 - 5

USER	RECOMMENDATION
GLL	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
RASA	REDUCE TO 1 SUPPORT ON ALTERNATE WKS (GLL,NEAR)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK (GLL,NEAR)

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #05 - DSS-14
Mid-July - Late August (Weeks 28 - 34)
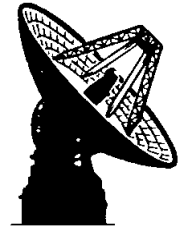
USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT	3 - 4
GSSR	ASTEROID MITHRA (DOY 218 - 222, WKS 31 AND 32)	2 - 3
M98O	MAPPING - 34H/70M	0 - 1
RASA	PLANET R/AST, 9 HRS	1
RASA	M-WAVE SPECT, 9 HRS	1
SVLB	ROUTINE SUPPORT (WKS 31 AND 32)	4 - 5

USER	RECOMMENDATION
GLL	REDUCE SUPPORT TO 5 - 6 HRS, DOY 218 - 222 (GSSR)
GSSR	REQUESTED SUPPORT
M98O	REQUESTED SUPPORT
RASA	REDUCE TO 1 SUPPORT ON ALTERNATE WKS (GLL,GSSR)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #06 - DSS-43
July (Weeks 29 - 30)

USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT	6
RASA	M-WAVE SPECT, 9 HRS	1
ULYS	ROUTINE SUPPORT, 10 HRS, WK 29 (1), WK 30 (3)	1 - 3
SVLB	ROUTINE SUPPORT	4 - 5

USER	RECOMMENDATION
GLL	REQUESTED SUPPORT
RASA	DELETE SUPPORT
ULYS	RESCHEDULE TO SEGMENTED SUPPORTS AT DSS-24, 43 (DSS-63)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK

NOTE: DSS-63 IS DOWN WEEKS 28 - 30 - REPLACE MOTOR CONTROL CENTER

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Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #07 - DSS-14
Late October - Early November (Weeks 43 - 44)
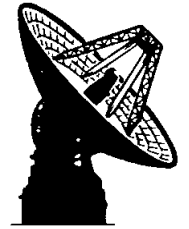
USER	CONTENTION	PASSES/WK
GRVB	ROUTINE SUPPORT, 13 HRS (DSS-14/43/63), WK 43	1
RASA	M-WAVE SPECT, 9 HRS, WK 43	1
RASA	RA500 WCB, 24 HRS (DSS-14/63), WK 43	1
SVLB	ROUTINE SUPPORT	3 - 5

USER	RECOMMENDATION
GRVB	REQUESTED SUPPORT
RASA	DELETE SUPPORTS IN WK 43 (GRVB)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #08 - DSS-14
Mid-November - Mid-December (Weeks 46 - 50)
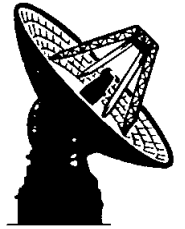
USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT	4 - 5
GSSR	JUPITER RADAR SUPPORT	2 - 4

USER	RECOMMENDATION
GLL	REDUCE TO 3 SUPPORTS/WK (GSSR)
GSSR	REQUESTED SUPPORT

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Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #09 - DSS-14, 63
Late December (Week 52)
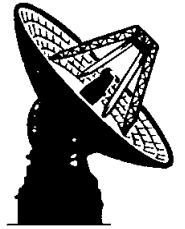
USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT	9
	ENCOUNTER SUPPORT (DOY 363 - 364)	4
NEAR	PRIME SCIENCE SUPPORT - DSS-14, 63	7
RASA	PLANET R/AST - DSS-14	1
SVLB	ROUTINE SUPPORT	7

USER	RECOMMENDATION
GLL	REDUCE ROUTINE SUPPORT TO 5 - 6 SUPPORTS/WK (NEAR)
	ENCOUNTER - REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
RASA	DELETE SUPPORT
SVLB	REDUCE TO 5 SUPPORTS AND ACCOMMODATE GLL ENCOUNTER

Resource Allocation Review
Requirements Analysis and Recommendations
34HEF Weekly Contention Percent - 2000
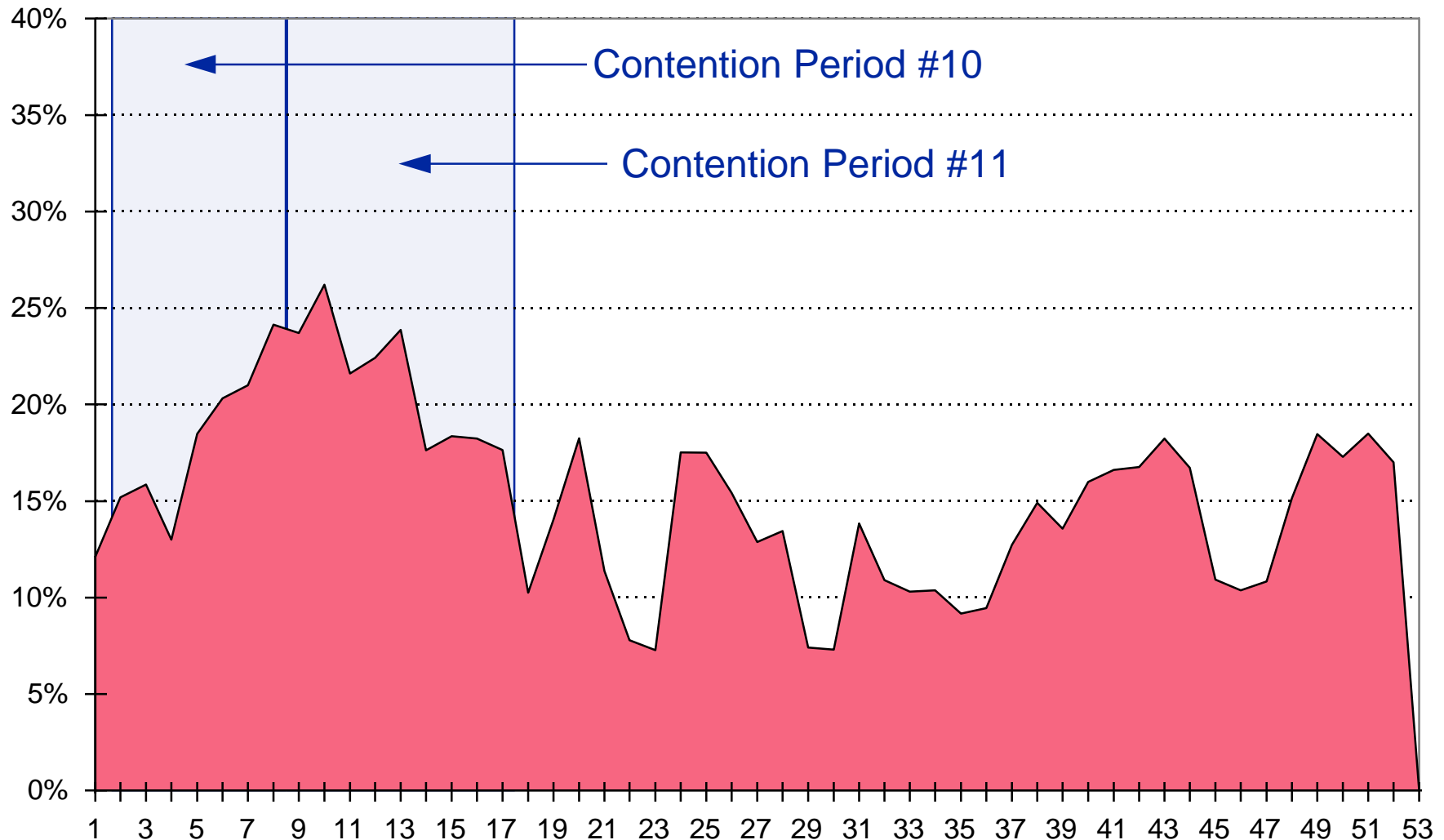
Contention Period #10

Contention Period #11

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #10 - 34HEF
Mid-January - Late February (Weeks 02 - 08)
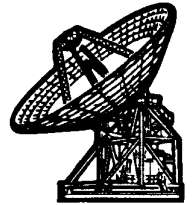
USER	CONTENTION	PASSES/WK
CAS	TLM/RNG I/F TEST (34H/70M ARRAY DOY 039), 6 HRS	1
DSS	MAINTENANCE, 6 - 8 HRS	3
M98L/O	SURFACE OPERATIONS (WKS 05-08), 8 - 10 HRS	2 - 3
MGS	MAPPING (WKS 05-08), 10 HRS	7
NEAR	PRIME SCIENCE SUPPORT (WKS 06-08)	3
STAR	TCM SUPPORT, 4 - 8 HRS	2 - 14
VGR1	NEGOTIATED SUPPORT AT DSS-65 (WKS 02-05), 6HRS	7
VGR2	NEGOTIATED SUPPORT AT DSS-45, 4 - 5 HRS	7

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #10 - 34HEF
Mid-January to Late February (Weeks 02 - 08) (Continued)
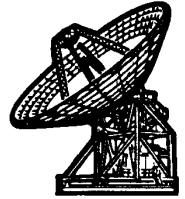
USER	RECOMMENDATION
CAS	USE DSS-65 AND MOVE TO DOY 038 (DSS, MGS, STAR)
DSS	REDUCE DSS-65 SUPPORT IN WK 07 TO 4 HRS (MGS, STAR)
M98L/O	REDUCE 2 PASSES IN WKS 07-08 TO 8 HRS (MGS, STAR)
MGS	REDUCE SUPPORT IN WKS 07-08 TO 6 HRS (M98L, STAR)
NEAR	REDUCE SUPPORT IN WKS 07-08 TO 4 HRS AND MOVE TO THE BWG (MGS, STAR, VGR2)
STAR	REQUESTED SUPPORT
VGR1	REDUCE SUPPORT AT DSS-65 TO 4 HRS (STAR)
VGR2	NEGOTIATED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #11 - 34HEF
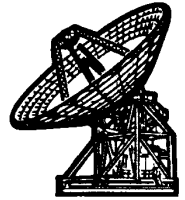### Late February - April (Weeks 09 - 17)

USER	CONTENTION	PASSES/WK
CAS	34H/70M CDS SWAP (WK 13, DOY 093) AND I/F TEST (WK 15, DOY 104), 6 HRS	1
DS1	ROUTINE SUPPORT (WK 12 AND 14), 8 - 9 HRS	1
DSS	MAINTENANCE, 6 - 8 HRS	3
DSN	CAT M&E (WKS 12 AND 13), 24 HRS	1
M98L/O	SURFACE OPERATIONS (WKS 09-13), 8 - 10 HRS AND MAPPING (WKS 14 - 17), 10 HRS	7
MGS	MAPPING, 10 HRS	9 - 10
NEAR	PRIME SCIENCE SUPPORT	3 - 18
STAR	TCM SUPPORT (WKS 09-14), 4 - 8 HRS	2 - 14
VGR2	NEGOTIATED SUPPORT AT DSS-45 (WK 09-12), 5-6 HRS	7

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #11 - 34HEF
Late February - April (Weeks 09 - 17) (Continued)
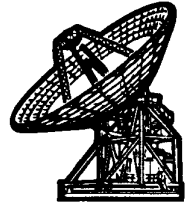
USER	RECOMMENDATION
CAS	MOVE SUPPORT TO WK 19 DOY 135 AND WK 23 DOY 159 (DSS)
DS1	MOVE SUPPORT IN WK 12 TO THE BWG (M98L, MGS, NEAR, STAR, VGR2)
DSS	REQUESTED SUPPORT
DSN	MOVE SUPPORT TO WK 21 AND 30 (M98L, MGS, NEAR, STAR, VGR2)
M98L/O	MSPA 5 PASSES/WK WITH MGS IN WKS 14-17 (NEAR, MGS)
MGS	USE 4 AND 6 HR SPLIT PASSES BETWEEN THE HEF AND DSS-25 OR DSS-54 IN WKS 09-13 (DSS, M98L, STAR). MSPA 5 PASSES/WK WITH M98O IN WK 14-17 (NEAR, M98O)
NEAR	REDUCE 2 PASSES/WK TO 4 HRS IN WKS 13-17 (DSS, M98L, MGS, STAR, VGR2)
STAR	REQUESTED SUPPORT
VGR2	NEGOTIATED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
34BWG1 Weekly Contention Percent - 2000

Contention Period #12
Contention Period #13
Contention Period #14
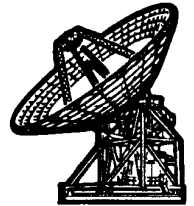Contention Period #15
Contention Period #16
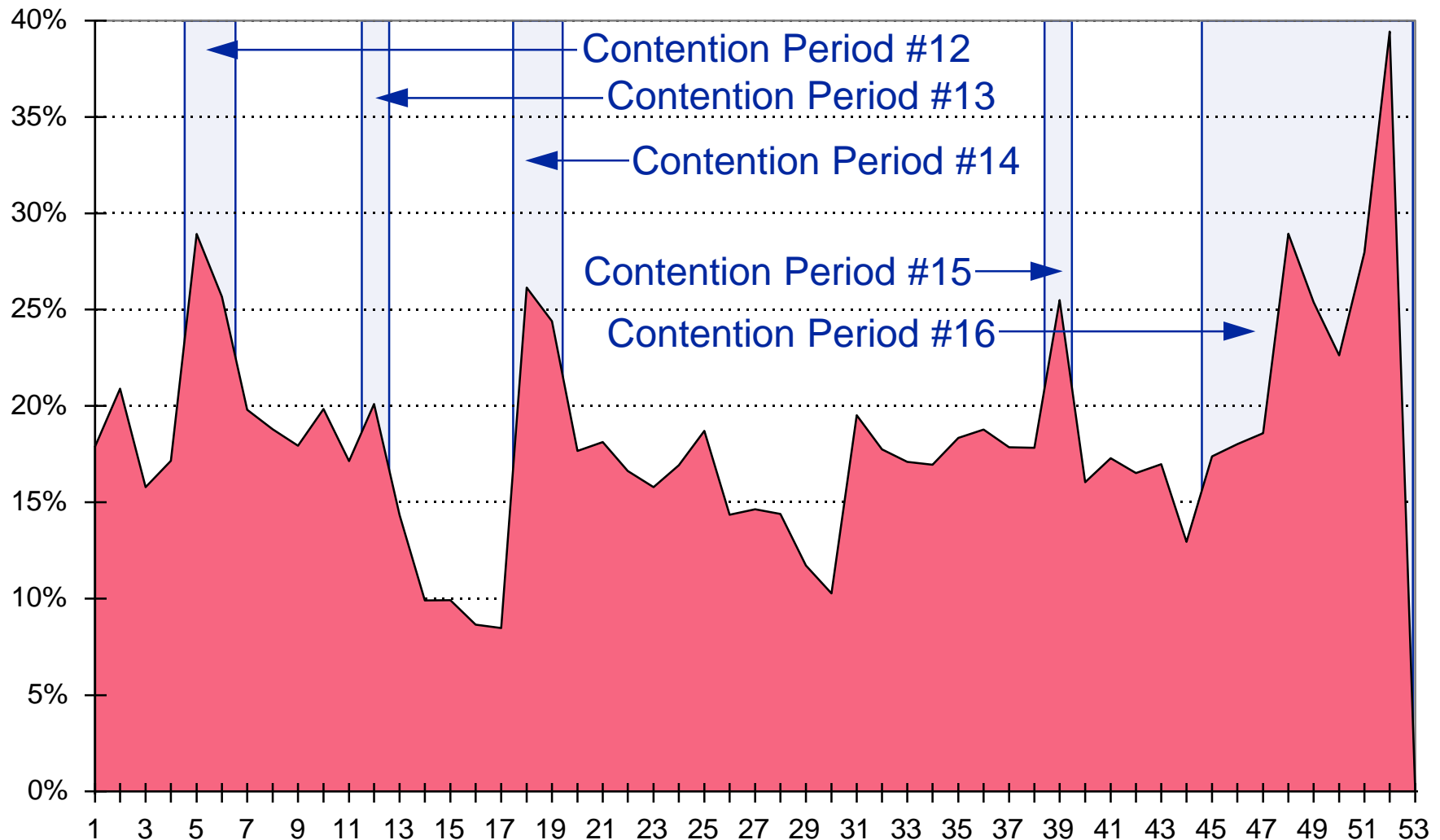
Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #12 - 34BWG1
### Late January - Mid-February (Weeks 05 - 06)

USER	CONTENTION	PASSES/WK
CAS	ROUTINE SUPPORT	1 - 2
DS1	ROUTINE SUPPORT, 4 - 9 HRS	0 - 1
DSS	MAINTENANCE, 6 - 8 HRS	3
M98/MGS	SURFACE OPERATIONS/ MAPPING (WK 5) 10 HRS	0 - 1
NEAR	EROS RENDEZVOUS, 4 - 8 HRS	12 - 13
ULS	ROUTINE SUPPORT AT DSS-34, 10 HRS	7
VGR1	NEGOTIATED SUPPORT AT DSS-24, 54, 4 - 8 HRS	7 - 14
WIND	LUNAR BF, TCM AND ROUTINE SUPPORT, 2.5 - 8 HRS	7

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #12 - 34BWG1
Late January - Mid-February (Weeks 05-06) (Continued)

JPL

USER	RECOMMENDATION
CAS	REQUESTED SUPPORT USING DSS-25 (NEAR)
DS1	REQUESTED SUPPORT USING DSS-25 (NEAR)
DSS	REDUCE DSS-24 SUPPORT TO 6 HRS (ULYS, VGR1, WIND)
M98	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
ULS	REDUCE SUPPORT TO 8 HRS AND USE DSS-24, 34 (NEAR)
VGR1	REDUCE DSS-24 SUPPORT TO 4-5 HRS (DSS, ULYS, WIND)
WIND	MOVE LUNAR BACKFLIP SUPPORT TO THE 26M
	MOVE TCM SUPPORT TO DSS-27 (ULYS, VGR1)

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #13 - DSS-34, 54
Mid-March (Week 12)
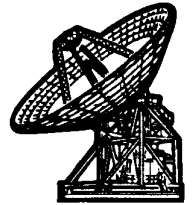
USER	CONTENTION	PASSES/WK
CAS	CDS FLIGHT SOFTWARE LOAD	4 - 5
DS1	ROUTINE AND CALIBRATION SUPPORT, 4 - 8 HRS	3 - 4
DSS	MAINTENANCE, 6 HRS	2
NEAR	PRIME SCIENCE SUPPORT	12

USER	RECOMMENDATION
CAS	MOVE CDS FLIGHT SOFTWARE LOAD TO WK 14
DS1	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #14 - 34BWG1
Early May (Weeks 18 - 19)
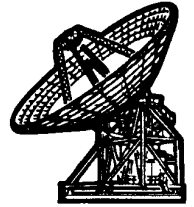
USER	CONTENTION	PASSES/WK
CAS	ROUTINE SUPPORT	0 - 1
DS1	ROUTINE SUPPORT, 4 - 9 HRS	1 - 2
DSS	MAINTENANCE, 6 - 8 HRS	3
NEAR	PRIME SCIENCE SUPPORT (DSS-34,54), 4 - 8 HRS	13
ULYS	ROUTINE SUPPORT AT DSS-34, 10 HRS	7
VGR1	ROUTINE SUPPORT AT DSS-24, 54	14
VGR2	NEGOTIATED SUPPORT AT DSS-34	7

USER	RECOMMENDATIONS
CAS	REQUESTED SUPPORT USING DSS-25 AND 54
DS1	REQUESTED SUPPORT USING DSS-25 AND 54
DSS	REQUESTED SUPPORT
NEAR	REDUCE 8 HR PASSES TO 6 HRS (CAS, DS1, VGR2, ULYS)
ULYS	REDUCE SUPPORT TO 8 HRS (NEAR)
VGR1	REDUCE SUPPORT AT DSS-54 TO 4-6 HRS (NEAR)
VGR2	REDUCE SUPPORT TO 5 HRS (NEAR, ULYS)

*DSS-45 DOWNTIME WEEKS 18 - 19 SUBREFLECTOR DRIVE

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #15 - DSS-34, 54
Late September (Week 39)
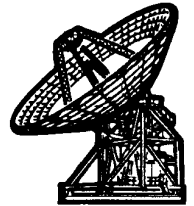
USER	CONTENTION	PASSES/WK
DS1	ROUTINE AND CALIBRATION SUPPORT, 4 - 9 HRS	6 - 7
M98O	MAPPING, 10 HRS	4
NEAR	PRIME SCIENCE SUPPORT	2
ULYS	SOUTHERN SOLAR AT DSS 34	7
VGR2	NEGOTIATED SUPPORT AT DSS-34, 5 HRS	7

USER	RECOMMENDATIONS
DS1	REQUESTED SUPPORT
M98O	MSPA WITH MGS 4 PASSES/WK ON 34HEF (DS1, NEAR, VGR2)
NEAR	REDUCE SUPPORT TO 4 HRS (DS1, ULYS, VGR2)
ULYS	REQUESTED SUPPORT
VGR2	NEGOTIATED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #16 - BWG1
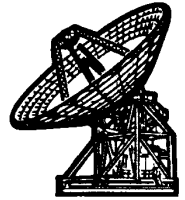### Mid-November - December (Weeks 45 - 52)
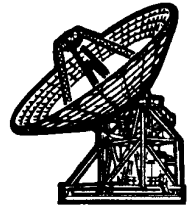
USER	CONTENTION	PASSES/WK
CAS	CAS FLYBY AND TCM SUPPORT (WKS 49 AND 52)	1 - 4
DS1	ROUTINE AND COMET SUPPORT (DSS-34,54), 4-9 HRS	1 - 14
DSS	MAINTENANCE, 6 - 8 HRS	3
MAP	LAUNCH SUPPORT, (WKS 45-49), 4 - 12 HRS	7 - 9
MGS	SCIENCE CAMPAIGN (DSS-34,54),(WK 48), 7 HRS	2
NEAR	PRIME SCIENCE SUPPORT (DSS-34,54)	10
STAR	TCM SUPPORT (DSS-34,54), 4 - 8 HRS	1 - 8
ULYS	SOUTH SOLAR (WKS 45-48) AND NUTATION SUPPORT AT DSS-34, (WKS 49-52), 11 HRS	1 - 3
VGR1	NEGOTIATED SUPPORT AT DSS-24,54, 4 - 6 HRS	4 - 5
VGR2	NEGOTIATED SUPPORT AT DSS-34, 5 HRS	6

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #16 - BWG1
Mid-November - December (Weeks 45 - 52) (Continued)

USER	RECOMMENDATION
CAS	REQUESTED SUPPORT
DS1	USE DSS-25 FOR ROUTINE SUPPORT, REDUCING 1 SUPPORT TO 7 HRS IN EACH OF WKS 46, 48, AND 51. USE DSS 25,34,65 FOR COMET SUPPORT IN WK 51. IN WK 52, REDUCE 1 COMET SUPPORT TO 4 HRS AND MOVE 1 PASS TO DSS-45 (DSS, NEAR, ULYS).
DSS	REDUCE DSS 34 AND 54 SUPPORT IN WK 52 TO 4 HRS
MAP	MOVE SUPPORT TO THE 26M (CAS,STAR,ULYS)
MGS	MOVE SCIENCE CAMPAIGN TO WK 46 (DS1)
NEAR	MOVE 2 DSS-34 PASSES IN WK 52 TO DSS-43 (DS1,ULYS,VGR2)
STAR	USE DSS-25 AND 54 FOR 8 HR SUPPORT IN WK 46 (MGS)
ULYS	REQUESTED SUPPORT
VGR1	NEGOTIATED SUPPORT
VGR2	NEGOTIATED SUPPORT
GLL	TO AVOID CONTENTION ON THE 70M AS A RESULT OF THE ABOVE RECOMMENDATION, REDUCE TWO DSS-43 ENCOUNTER PASSES IN WK 52 (DOY 363,364) TO 4 HRS FOR NEAR.

Resource Allocation Review
Requirements Analysis and Recommendations
34BWG2 Weekly Contention Percent - 2000
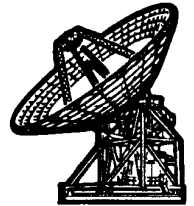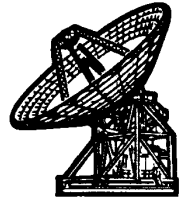

Contention Period #17

Contention Period #18
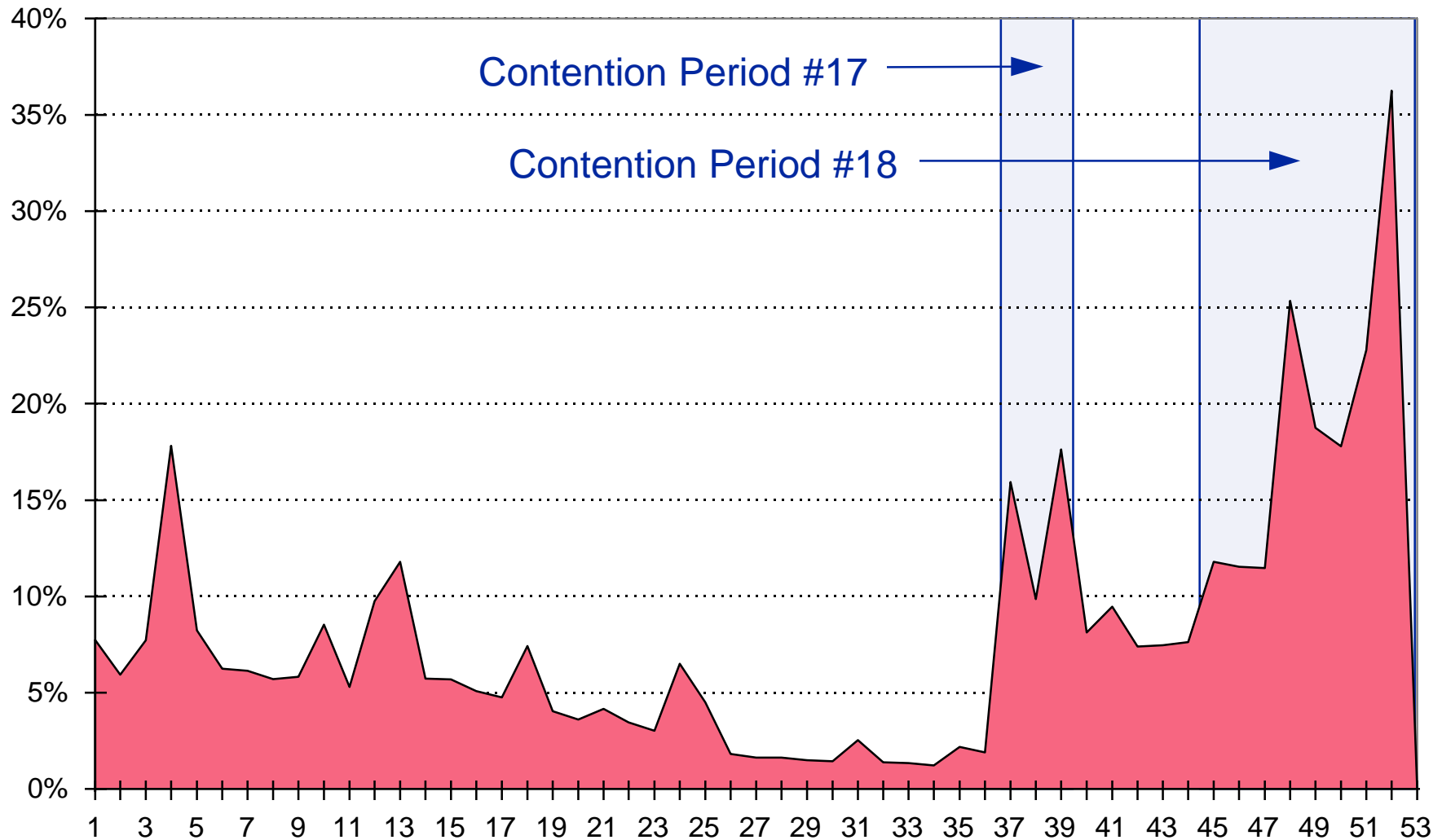
Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #17 - DSS-25
Mid-September to Mid-October (Weeks 37 - 40)

USER	CONTENTION	PASSES/WK
CAS	FLYBY SCIENCE AND TCM SUPPORT, 9 HRS	1 - 2
DS1	ROUTINE AND CALIBRATION SUPPORT, 4 - 9 HRS	1 - 4
DSS	MAINTENANCE	1
M98O	MAPPING (WKS 38 - 40), 10 HRS	2 - 3
STAR	ROUTINE SUPPORT, 6 HRS	0 - 1

USER	RECOMMENDATION
CAS	REQUESTED SUPPORT
DS1	REQUESTED SUPPORT
DSS	REDUCE SUPPORT TO 6 HRS IN WKS 38-40 (DS1, CAS, M98O)
M98O	MSPA WITH MGS ON THE HEF 3 PASSES/WK (CAS, DS1, DSS, STAR)
STAR	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #18 - DSS-25
### Mid-November through December (Weeks 45 - 52)

USER	CONTENTION	PASSES/WK
CAS	CAS FLYBY, TCM SUPPORT (WKS 45, 49, 52), 8 - 9 HRS	1 - 4
DS1	ROUTINE AND COMET SUPPORT, 4 - 9 HRS	4 - 7
DSS	MAINTENANCE	1
NEAR	PRIME SCIENCE SUPPORT	5
STAR	TCM SUPPORT, 4 - 8 HRS	1 - 4
VGR1	NEGOTIATED SUPPORT, 4 - 6 HRS	7

USER	RECOMMENDATIONS
CAS	REQUESTED SUPPORT
DS1	REDUCE 1 PASS/WK IN WK 48 AND 52 TO 4 HRS (DSS)
DSS	REDUCE SUPPORT IN WK 46, 48, 51 AND 52 TO 4-6 HRS (DS1)
NEAR	DELETE SUPPORT AT DSS-25 AND USE DSS-14 UPLINK CAPABILITY 5 PASSES/WK (DSS,DS1)
STAR	REQUESTED SUPPORT
VGR1	NEGOTIATED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
26M Weekly Contention Percent - 2000
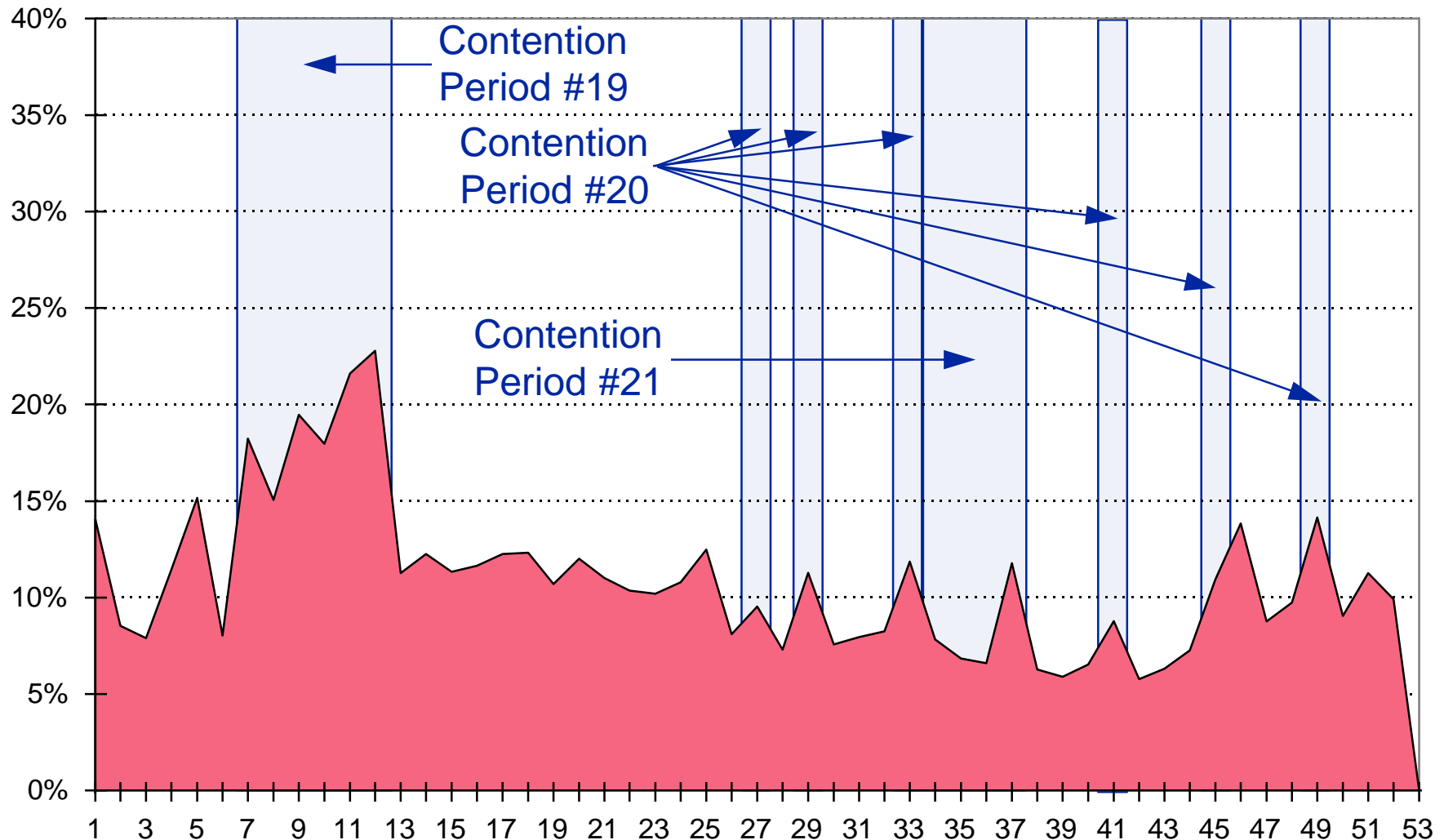
Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #19 - 26M
Mid-February to Late March (Weeks 07 - 12)

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USER	CONTENTION	PASSES/WK
ACE	ROUTINE SUPPORT (DSS-16, 66), 4 HRS	7
DSS	MAINTENANCE, 6 - 8 HRS	3
IMAG	LAUNCH AND IOC SUPPORT (DSS-46, 66), 3 - 6 HRS	8 - 13
POLR	ROUTINE SUPPORT, 1 - 2 HRS	35
SOHO	TSO AND ROUTINE SUPPORT, 1.6 - 9.6 HRS	21

USER	RECOMMENDATION
ACE	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
POLR	MOVE RT SUPPORT TO DSS-16, 46
	AND PB SUPPORT TO DSS-16, 27, 46 (IMAG)
SOHO	REDUCE SEVEN 9.6HR SUPPORTS TO 4 HRS SEVEN TIMES/WEEK
	AND DELETE TSO IN WEEK 9 (IMAG)

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Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #20 - DSS-16, 66
Early July to Early December (Weeks 27, 29, 33, 41, 45, 46, 49)

USER	CONTENTION	PASSES/WK
ACE	ROUTINE SUPPORT (DSS-16, 66), 4 - 10 HRS	7
CLU2	ROUTINE SUPPORT WK 41, 45, 49 (DSS-16, 46), 2 HRS	12
DSS	MAINTENANCE, 6 - 8 HRS	2
SOHO	TSO AND ROUTINE SUPPORT, 1.6 - 9.6 HRS	14

USER	RECOMMENDATION
ACE	REQUESTED SUPPORT
CLU2	REQUESTED SUPPORT
DSS	REDUCE MAINTENANCE TO 6 HRS IN WEEKS 27, 29, 33, 41, 45, 49 (ACE, CLU2,SOHO)
SOHO	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2000 - Contention Period #21 - 26M
Late August to Mid-September (Weeks 34 - 37)

USER	CONTENTION	PASSES/WK
DSS	SERVO HYDRAULIC DRIVE DOWNTIME DSS-16 (DOY 234-261)	
ACE	ROUTINE SUPPORT (DSS-16, 66), 4 HRS	7
GEOT	ROUTINE SUPPORT, 1.1 HRS	7 - 21
POLR	ROUTINE SUPPORT, 1 - 2 HRS	35
SOHO	TSO AND ROUTINE SUPPORT, 1.6 - 9.6 HRS	21

USER	RECOMMENDATION
DSS	REQUESTED DOWNTIME.
	REDUCE DSS-27 AND 66 SUPPORT TO 6 HRS IN WKS 34-37
	(ACE, GEOT, POLR, SOHO)
ACE	REQUESTED SUPPORT USING DSS-27, 66 (DSS)
GEOT	REQUESTED SUPPORT USING DSS-27, 46, 66 (DSS)
POLR	REQUESTED SUPPORT USING DSS-27, 46, 66 (DSS)
SOHO	REDUCE 9.6HR SUPPORT IN WEEKS 34-37 TO 8 HRS
	USING DSS-27, 66 AND MOVE TSO TO WK 38 (DSS)

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Resource Allocation Review
Requirements Analysis and Recommendations

2001 Activities in Contention / Recommendations

Resource Allocation Review
Requirements Analysis and Recommendations
70M Weekly Contention Percent - 2001
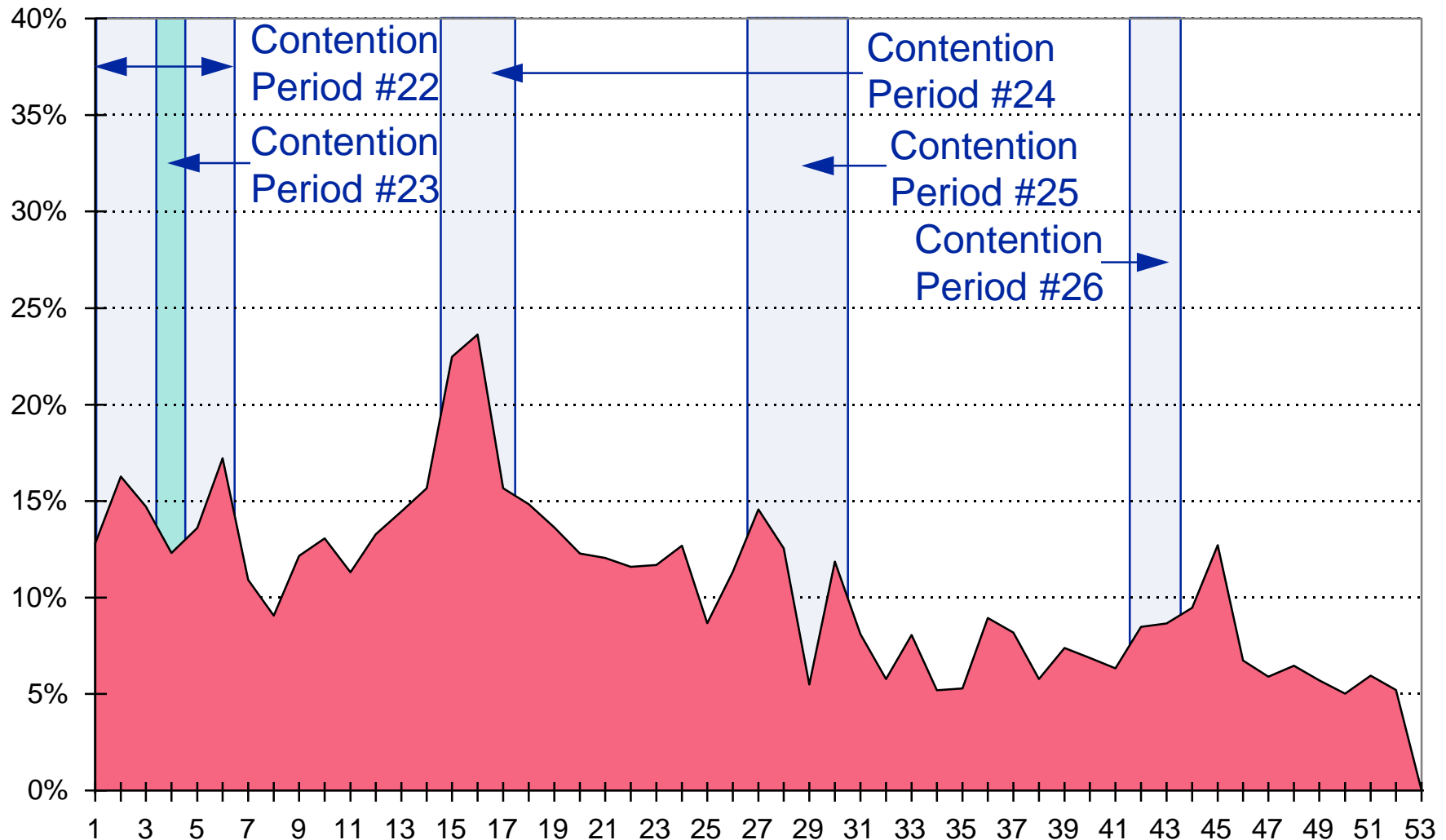
Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #22 - DSS-14
January - Mid-February (Weeks 01 - 06)

USER	CONTENTION	PASSES/WK
GLL	ROUTINE SUPPORT, 6 - 8 HRS	7
GRVB	ROUTINE SUPPORT, 13 HRS, DSS-14/43/63, WK 06	1
M98O/MGS	MAPPING SUPPORT, 2 HRS	3 - 4
MAP	MANEUVER SUPPORT, WK 06	1
NEAR	PRIME SCIENCE SUPPORT, 4 - 8 HRS	7
RASA	M-WAVE SPECT, 9 HRS	1
RASA	PLANET R/AST, 9 HRS	1
RASA	RA500 WCB, 24 HRS, DSS-14/63, WK 02	1
SVLB	ROUTINE SUPPORT	3 - 4

USER	RECOMMENDATION
GLL	REQUESTED SUPPORT
GRVB	RESCHEDULE TO WK 11 (GLL, NEAR)
M98O/MGS	REQUESTED SUPPORT
NEAR	REQUESTED SUPPORT
MAP	REQUESTED SUPPORT
RASA	REDUCE PLANETARY R/AST TO ONE SUPPORT ON ALTERNATE WKS AND RESCHEDULE RA500 WCB TO WK 13
SVLB	REDUCE TO 1 - 2 SUPPORTS/WK

JPL

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #23 - DSS-43
Late January (Week 04)

USER	CONTENTION	PASSES/WK
DSS	HOST COUNTRY, 24 HRS	1
ULYS	NUTATION SUPPORT, 13 - 23 HRS	7

USER	RECOMMENDATION
DSS	RESCHEDULE TO WK 08
ULYS	REQUESTED SUPPORT

*THIS CONTENTION HAS BEEN RESOLVED

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #24 - DSS-43
April (Weeks 15 - 17)

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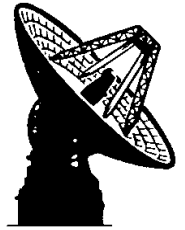
USER	CONTENTION	PASSES/WK
DS1	END IPS (WKS 15, 16), 9 HRS	3 - 4
DSS	MAINTENANCE AND HOST COUNTRY, 24 HRS, WK 16	1 - 2
M98O/MGS	M98O MAPPING/MGS COMM RELAY, 10 HRS	3 - 4
MAP	MANEUVER SUPPORT, WK 17	1
RASA	M-WAVE SPECT, 9 HRS	1
SVLB	ROUTINE SUPPORT	4 - 5
ULYS	NUTATION SUPPORT	7

USER	RECOMMENDATION
DS1	DELETE SUPPORT (DSS, ULYS)
DSS	RESCHEDULE HOST COUNTRY SUPPORT TO WK 25
M98O/MGS	REQUESTED SUPPORT
MAP	REQUESTED SUPPORT
RASA	DELETE SUPPORT
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK
ULYS	REQUESTED SUPPORT - MOVE ONE PASS TO DSS-34 (DSS)

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #25 - DSS-63
July (Weeks 27 - 30)

USER	CONTENTION	PASSES/WK
GRVB	ROUTINE SUPPORT, WK 29, (DSS-14/43/63)	1
MAP	MANEUVER SUPPORT, WK 30	1
RASA	RA500 14/63, 24 HRS AND VLBA WCB 14/63(WK27)	2
SVLB	ROUTINE SUPPORT	4 - 5
ULYS	NUTATION SUPPORT, 12 HRS	7

USER	RECOMMENDATION
GRVB	RESCHEDULE TO WK 24 (ULYS)
MAP	REQUESTED SUPPORT
RASA	DELETE SUPPORT (ULYS)
SVLB	REDUCE TO 2 - 3 SUPPORTS/WK (ULYS)
ULYS	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2001- Contention Period #26 - DSS-14
Late October (Weeks 42 - 44)

USER	CONTENTION	PASSES/WK
GODR	ROUTINE SUPPORT, WKS 42 AND 44	1
MAP	ROUTINE MANEUVER SUPPORT, 8 HRS, WK 43	1
RASA	M-WAVE SPECT, 9 HRS	1
RASA	PLANET R/AST, 9 HRS	1
ULYS	NUTATION SUPPORT, 12 - 17 HRS	7

USER	RECOMMENDATION
GODR	RESCHEDULE TO WKS 49 AND 51 (ULYS)
MAP	REQUESTED SUPPORT
RASA	RESCHEDULE TO ONE SUPPORT ON ALTERNATE WKS (ULYS)
ULYS	REQUESTED SUPPORT
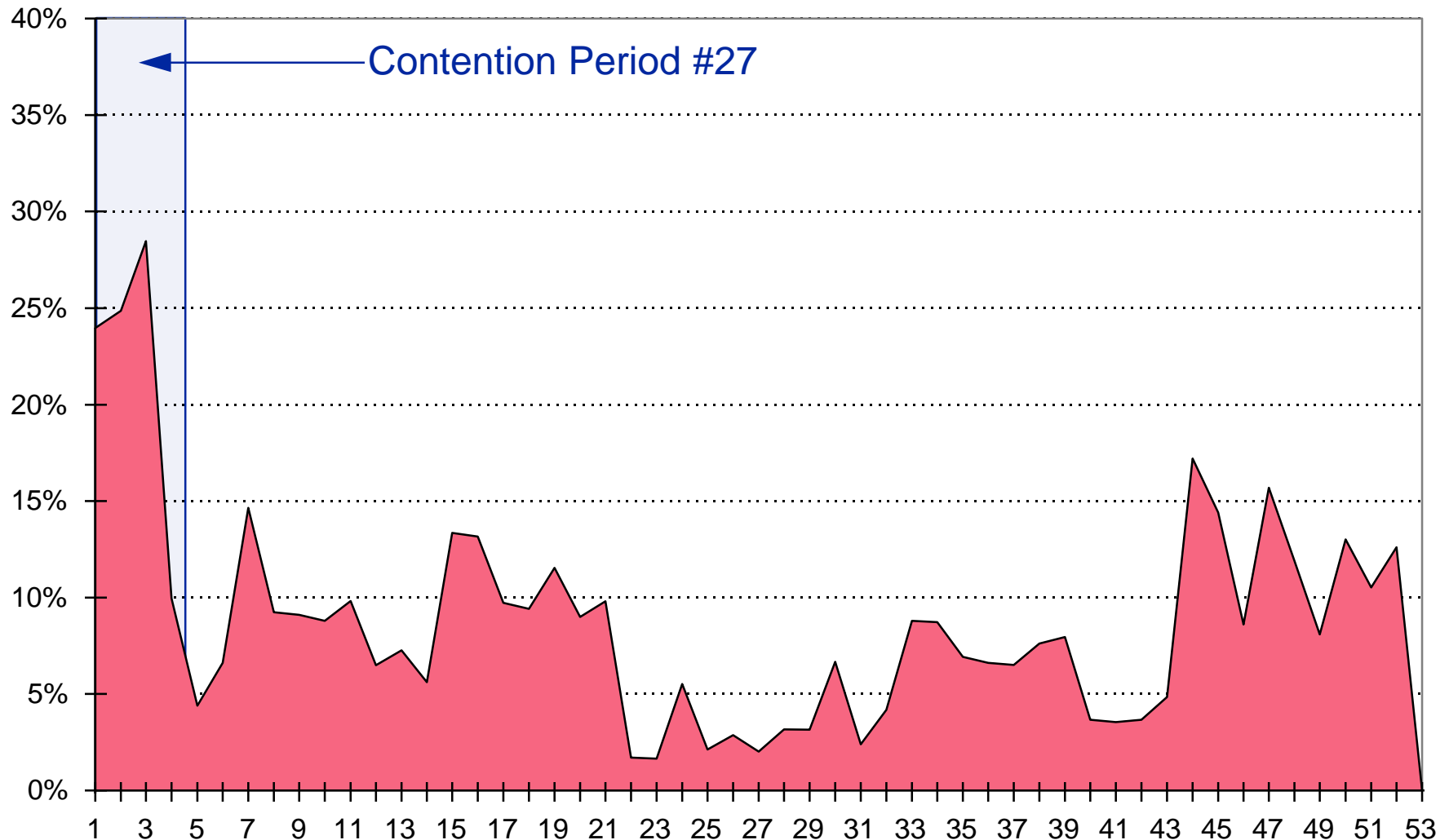
Resource Allocation Review
Requirements Analysis and Recommendations
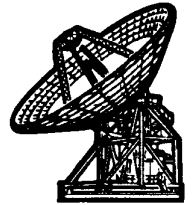## 2001 - Contention Period #27 - 34HEF
January (Weeks 01 - 04)

USER	CONTENTION	PASSES/WK
CAS	JUPITER ENCOUNTER, 8 - 9 HRS	3 - 9
DS1	COMET ENCOUNTER, 4 - 8 HRS	9 - 21
DSS	MAINTENANCE, 6 - 8 HRS	3
M98O/MGS	MAPPING (MSPA)	7
NEAR	PRIME SCIENCE SUPPORT	3
VGR2	NEGOTIATED SUPPORT AT DSS-45 (WKS 3-4), 4 HRS	7

USER	RECOMMENDATIONS
CAS	REQUESTED SUPPORT
DS1	MOVE ONE DSS-15 PASS TO DSS-25 (DSS)
	DELETE 1.5 PASSES AT DSS-45 AND MOVE TWO DSS-65
	PASSES TO DSS-63 (DSS, NEAR)
DSS	REQUESTED SUPPORT
M98O/MGS	SPLIT INTO 4-HR PASSES (DS1, DSS, NEAR, VGR2)
NEAR	MOVE ONE DSS-15 AND DSS-25 PASS TO DSS-14 (DSS, DS1)
VGR2	REDUCE TO 6 PASSES AT DSS-45 (ONE REMAINS AT DSS-43)
	(DS1, DSS, MGS, NEAR)

Resource Allocation Review
Requirements Analysis and Recommendations
34BWG1 Weekly Contention Percent - 2001

Contention Period #28   Contention Period #32

Contention Period #29   Contention Period #33

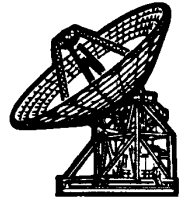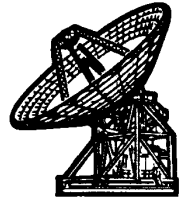Contention Period #30

Contention Period #31
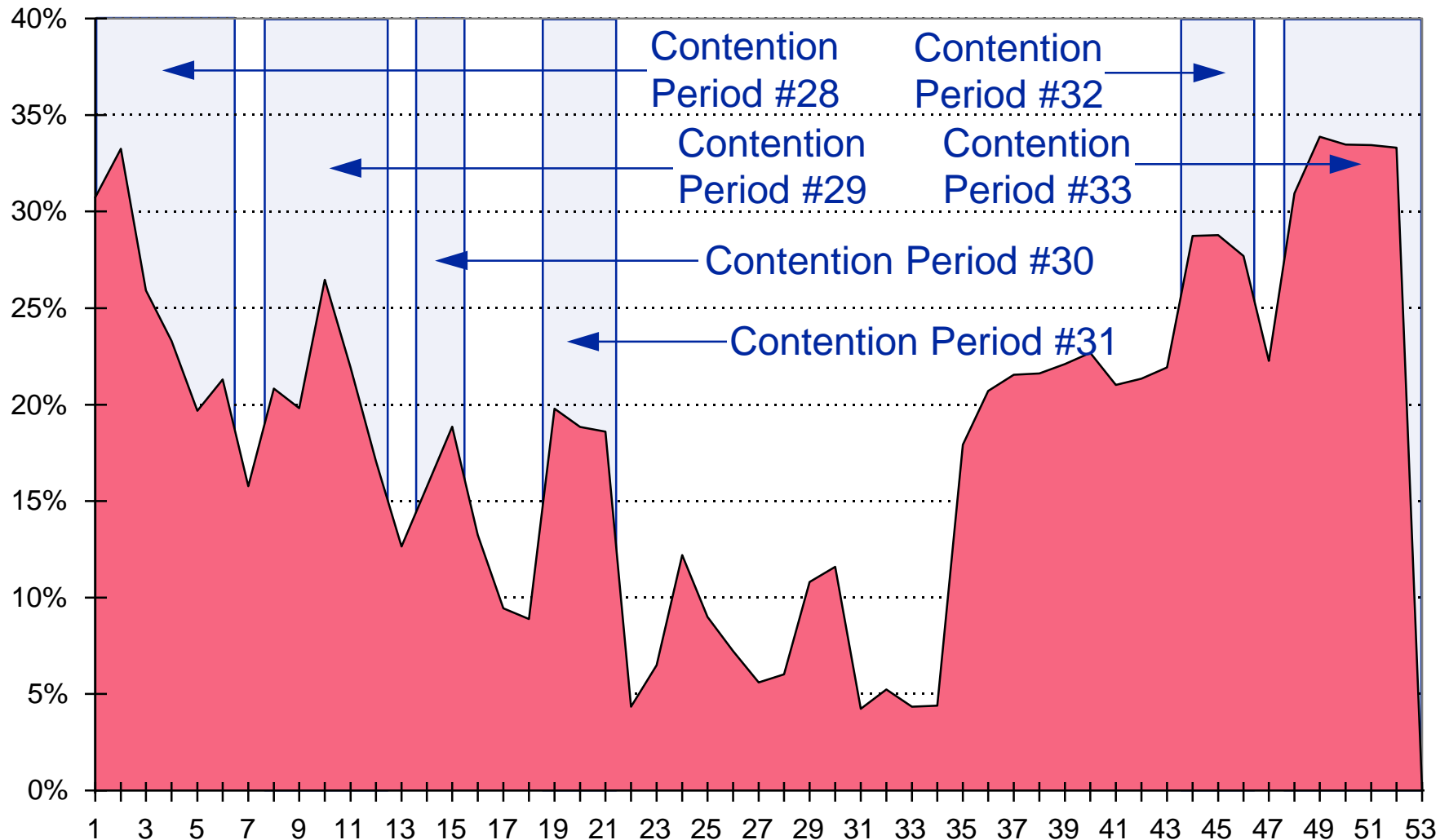
Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #28 - 34BWG1
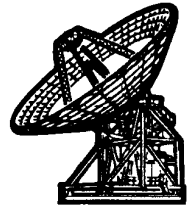### January - Mid-February (Weeks 01 - 06)

USER	CONTENTION	PASSES/WK
CHDR	ROUTINE SUPPORT, 45 MIN	21
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	LAUNCH AND ROUTINE SUPPORT, 4 HRS	1
IMAG	ROUTINE SUPPORT, 45 MIN AT DSS-54	7
MGS	MAPPING, 10 HRS AT DSS-34,54	2 - 3
NEAR	PRIME SCIENCE SUPPORT	12
PLNB	ROUTINE SUPPORT, 4 HRS AT DSS-24,54 (WKS 1, 5)	0 - 1
SOHO	ROUTINE SUPPORT, 4 HRS AT DSS-24	2 - 7
STAR	TCM AND EGA SUPPORT, 4-8 HRS AT DSS-34,54	9 - 10
ULYS	NUTATION SUPPORT, 10 HRS AT DSS-34	1
VGR1	NEGOTIATED SUPPORT, 2 - 8 HRS, DSS-24,54	7 - 14
VGR2	NEGOTIATED SUPPORT, 6 - 8 HRS, DSS-34 (WKS 1-2)	7
WIND	ROUTINE SUPPORT, 2.5 HRS	7

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #28 - 34BWG1
January - Mid-February (Weeks 01 - 06) (Continued)

USER	RECOMMENDATION
CHDR	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
MGS	SPLIT INTO 5-HR PASSES (DSS, GSIS, NEAR, VGR2)
NEAR	REQUESTED SUPPORT
PLNB	REQUESTED SUPPORT
SOHO	IN WKS 02-04 AND 06, REDUCE ONE PASS TO 2 HRS (DSS)
STAR	IN WKS 01-02, MOVE ALL DSS-34,54 PASSES TO DSS-45,65 (NEAR)
ULYS	REQUESTED SUPPORT
VGR1	NEGOTIATED SUPPORT
VGR2	REDUCE TO 6 PASSES AND REDUCE PASS LENGTH TO 4 HRS (DSS, MGS, NEAR)
WIND	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #29 - 34BWG1
### Mid-February - Late March (Weeks 08 - 12)

USER	CONTENTION	PASSES/WK
CHDR	ROUTINE SUPPORT, 45 MIN	21
CAS	TCM AT DSS-54 (WK 09, DOY 059)	1
DS1	ROUTINE SUPPORT, 4-9 HRS AT DSS-34,54	2 - 5
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	ROUTINE SUPPORT, 4 HRS	1
IMAG	ROUTINE SUPPORT, 45 MIN AT DSS-54	7
PLNB	ROUTINE SUPPORT, 4 HRS AT DSS-24,54 (WK 09)	0 - 1
SOHO	ROUTINE SUPPORT, 4 HRS AT DSS-24	2 - 7
STAR	TCM SUPPORT, 4 HRS AT DSS-34,54 (WKS 08,09)	4 - 10
ULYS	NUTATION SUPPORT, 3 - 15 HRS AT DSS-34, 54	3 - 16
VGR1	ROUTINE SUPPORT AT DSS-24, (WKS 08,09)	7
VGR2	NEGOTIATED SUPPORT, 16 HRS AT DSS-34	3 - 4
WIND	ROUTINE SUPPORT, 2.5 HRS	7

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Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #29 - 34BWG1
Mid-February - Late March (Weeks 08 - 12) (Continued)
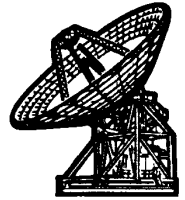
USER	RECOMMENDATION
CHDR	REQUESTED SUPPORT
CAS	REQUESTED SUPPORT
DS1	USE DSS-45 (4 HR) AND DSS-25,65 (8-9 HRS) (ULYS)
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
PLNB	REQUESTED SUPPORT
SOHO	REQUESTED SUPPORT
STAR	REQUESTED SUPPORT
ULYS	MOVE 2 PASSES/WK TO DSS-14 (WKS 10-12) AND DSS-63 (WK 10) (DSS)
VGR1	REQUESTED SUPPORT
VGR2	REDUCE TO ONE 12-HR AND THREE 4-HR PASSES (DSS,STAR,ULYS)
WIND	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
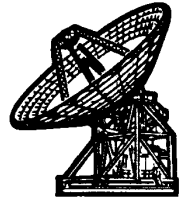### 2001 - Contention Period #30 - 34BWG1
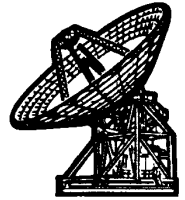### Early April (Weeks 14 - 15)
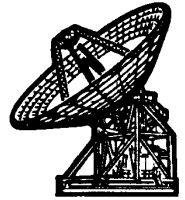
USER	CONTENTION	PASSES/WK
CHDR	ROUTINE SUPPORT, 45 MIN	21
DS1	END IPS AT DSS-54 (WK 15), 9 HRS	3
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	ROUTINE SUPPORT, 4 HRS	1
IMAG	ROUTINE SUPPORT, 45 MIN AT DSS-54	7
M01O	LAUNCH, 8 - 21 HRS AT DSS-34	6 - 7
M98O/MGS	MAPPING, 10 HRS AT DSS-54 (WK 15)	2 - 3
SOHO	ROUTINE SUPPORT, 4 HRS AT DSS-24	2 - 7
ULYS	NUTATION SUPPORT AT DSS-24, 5 - 8 HRS	3 - 4
VGR1	ROUTINE SUPPORT AT DSS-24,54	7 - 14
WIND	ROUTINE SUPPORT, 2.5 HRS	7

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Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #30 - 34BWG1
Early April (Weeks 14 - 15) (Continued)

USER	RECOMMENDATION
CHDR	USE DSS-24,54 ONLY (M01O)
DS1	REQUESTED SUPPORT
DSS	REDUCE TO 4 HRS (WK 15) AT DSS-34 (M01O)
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
M01O	MOVE ONE SUPPORT IN WK 14 TO DSS-45 (DSS)
M98O/MGS	ACCOMMODATE DS1 AND DSS
SOHO	REQUESTED SUPPORT
ULYS	REQUESTED SUPPORT
VGR1	DELETE THREE PASSES/WK AT DSS-54 (WK 15) (M98O,MGS)
WIND	USE DSS-24,54 ONLY (M01O)

Resource Allocation Review
Requirements Analysis and Recommendations
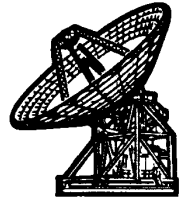### 2001 - Contention Period #31 - 34BWG1
May (Weeks 19 - 21)

USER	CONTENTION	PASSES/WK
CHDR	ROUTINE SUPPORT, 45 MIN	21
DS1	TCM (WK 21), ROUTINE SUPPORT DSS-34,54, 4 - 9 HRS	4 - 13
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	ROUTINE SUPPORT, 4 HRS	1
IMAG	ROUTINE SUPPORT, 45 MIN AT DSS-54	7
M01O	ROUTINE SUPPORT AT DSS-34	3
PLNB	ROUTINE SUPPORT, 4 HRS AT DSS-24,54 (WK 21)	0 - 1
ULYS	NUTATION SUPPORT AT DSS-24, 8 - 12 HRS	6 - 7
VGR2	NEGOTIATED SUPPORT AT DSS-34 , 8 - 16 HRS	7
WIND	ROUTINE SUPPORT, 2.5 HRS	7

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #31 - 34BWG1
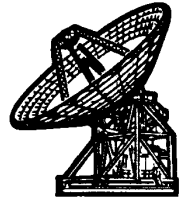### May (Weeks 19 - 21) (Continued)

USER	RECOMMENDATION
CHDR	REQUESTED SUPPORT
DS1	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
M01O	REQUESTED SUPPORT
PLNB	REQUESTED SUPPORT
ULYS	MOVE ONE PASS/WK (WKS 19-20) TO DSS-14 (DSS)
VGR2	REDUCE ALL PASSES TO 6-8 HRS (DS1,DSS.M01O)
WIND	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #32 - DSS-24
Early November (Weeks 44 - 46)

USER	CONTENTION	PASSES/WEEK
CHDR	ROUTINE SUPPORT, 45 MIN	7
DSS	MAINTENANCE, 6 - 8 HRS	1
GSIS	ROUTINE SUPPORT, 4 HRS	0 - 1
PLNB	ROUTINE SUPPORT, 4 HRS (WK 45)	0 - 1
ULYS	NUTATION SUPPORT, 17 HRS	6
VGR1	ROUTINE SUPPORT	7

USER	RECOMMENDATIONS
CHDR	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
PLNB	REQUESTED SUPPORT
ULYS	REQUESTED SUPPORT
VGR1	REDUCE SUPPORT TO 2-4 HRS/PASS (ULYS)

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #33 - DSS-34, 54
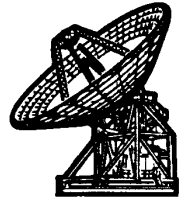### Late November - December (Weeks 48 - 52)

USER	CONTENTION	PASSES/WEEK
CHDR	ROUTINE SUPPORT, 45 MIN	14
DS1	TCM AND ROUTINE SUPPORT (WK 48), 4 - 9 HRS	1 - 2
DSS	MAINTENANCE, 6 HRS	2
GSIS	ROUTINE SUPPORT, 4 HRS	1
IMAG	ROUTINE SUPPORT AT DSS-54, 45 MIN	7
M01O	AEROBRAKING	14
M98O/MGS	MAPPING, 5 HRS	9 - 10
PLNB	ROUTINE SUPPORT AT DSS-54, 4 HRS	0 - 1
SRTF	LAUNCH SUPPORT	4 - 14
VGR1	NEGOTIATED SUPPORT AT DSS-54, 4 HRS	7
VGR2	NEGOTIATED SUPPORT AT DSS-34, 4 HRS	3
WIND	ROUTINE SUPPORT, 2.5 HRS	7

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Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #33 - DSS-34,54
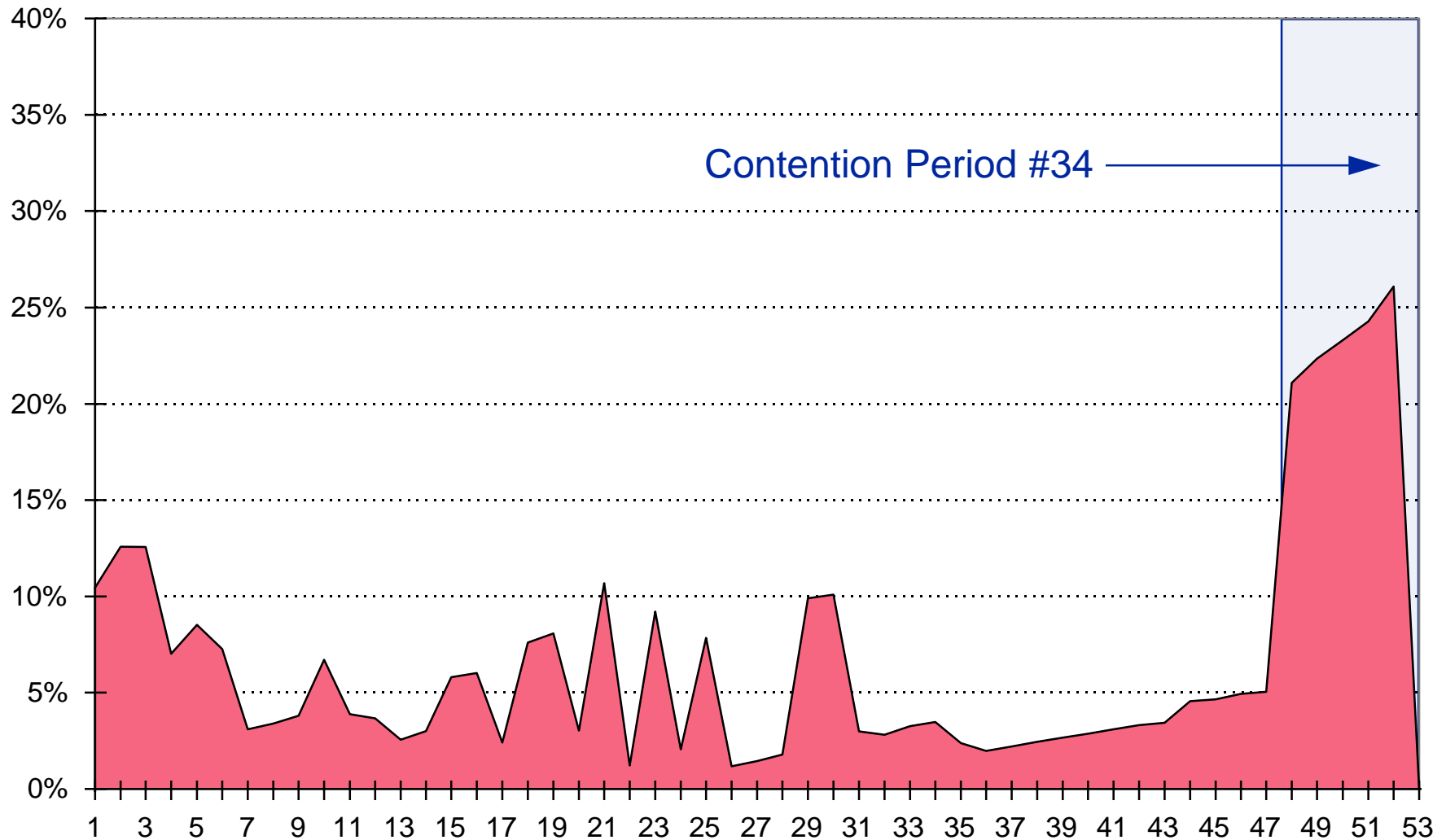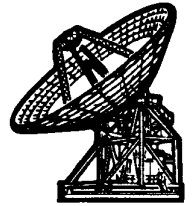### Late November - December (Weeks 48 - 52) (Continued)

USER	RECOMMENDATIONS
CHDR	REQUESTED SUPPORT
DS1	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
M01O	MOVE TO DSS-43, 63 FOR WKS 48-52. MSPA WITH M98O AND MGS EXCLUDING DOY 354-361
M98O/MGS	MOVE TO DSS-43, 63 AND MSPA WITH M01O EXCLUDING DOY 354-361. REMAIN AT DSS-34,54 ON DOY 354-361.
PLNB	REQUESTED SUPPORT
SRTF	REQUESTED SUPPORT
VGR1	REQUESTED SUPPORT
VGR2	REQUESTED SUPPORT
WIND	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
34BWG2 Weekly Contention Percent - 2001
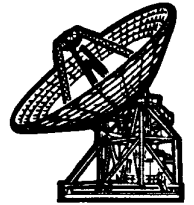
Contention Period #34

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Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #34 - DSS-25
## Late November - December (Weeks 48 - 52)

USER	CONTENTION	PASSES/WK
CAS	GRAVITATIONAL WAVE SUPPORT	7
DS1	ROUTINE SUPPORT (WK 48), 4 - 9 HRS	0 - 1
DSS	MAINTENANCE, 6 - 8 HRS	1
M01O	AEROBRAKING	7
M98O/MGS	MAPPING, 5 HRS	4 - 5

USER	RECOMMENDATION
CAS	REQUESTED SUPPORT
DS1	REQUESTED SUPPORT
DSS	REDUCE TO 6 HRS
M01O	MSPA WITH M98O AND MGS EXCLUDING DOY 354-361
M98O/MGS	MOVE TO DSS-14 OR 15 ON DOY 354-361; MSPA WITH M01O EXCLUDING DOY 354-361

Resource Allocation Review
Requirements Analysis and Recommendations
26M Weekly Contention Percent - 2001

Contention Period #35

Contention Period #36
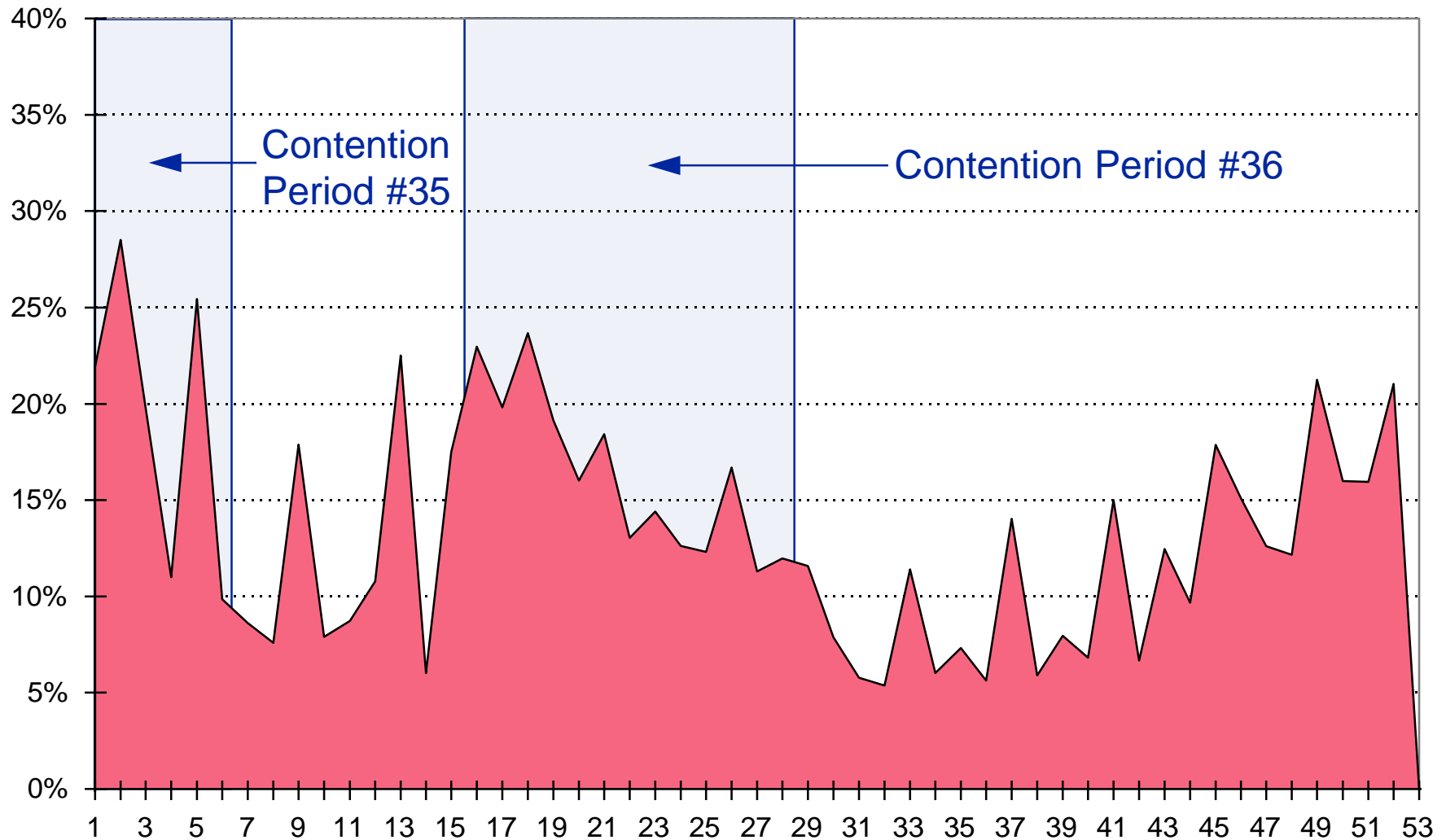
Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #35 - 26M
January - Early February (Weeks 01 - 06)

USER	CONTENTION	PASSES/WK
ACE	ROUTINE SUPPORT, 3.5 - 8 HRS	7
CLU2	ROUTINE SUPPORT, 2 HRS	12
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	LAUNCH, 4 - 8 HRS	3 - 20
POLR	ROUTINE SUPPORT, 1 - 2 HRS	35
SOHO	TSO (WKS 1 AND 5), ROUTINE SUPPORT, 2 - 8 HRS	21

USER	RECOMMENDATION
ACE	REQUESTED SUPPORT USING DSS-24, 27, 46
CLU2	REQUESTED SUPPORT USING DSS-16, 27, 46
DSS	PERFORM MAINTENANCE IN NON-DAYLIGHT HOURS(ACE,CLU2,GSIS)
GSIS	REQUESTED SUPPORT
POLR	REQUESTED SUPPORT
SOHO	REQUESTED 8 HR SUPPORTS AT DSS-24, 27
	DELETE ALL (21) 1.6-HR PASSES IN WKS 02 AND 03 (GSIS)

Resource Allocation Review
Requirements Analysis and Recommendations
2001 - Contention Period #36 - 26M
Mid-April - Mid-July (Weeks 16 - 28)

USER	CONTENTION	PASSES/WK
ACE	ROUTINE SUPPORT (DSS-46, 66) 3.5 HRS	7
DSS	MAINTENANCE, 6 - 8 HRS	3
GSIS	CRUISE, 3 - 8 HRS	2 - 13
POLR	ROUTINE SUPPORT, 1 - 2 HRS	35
SOHO	HSO SUPPORT (DSS-46, 66)	14

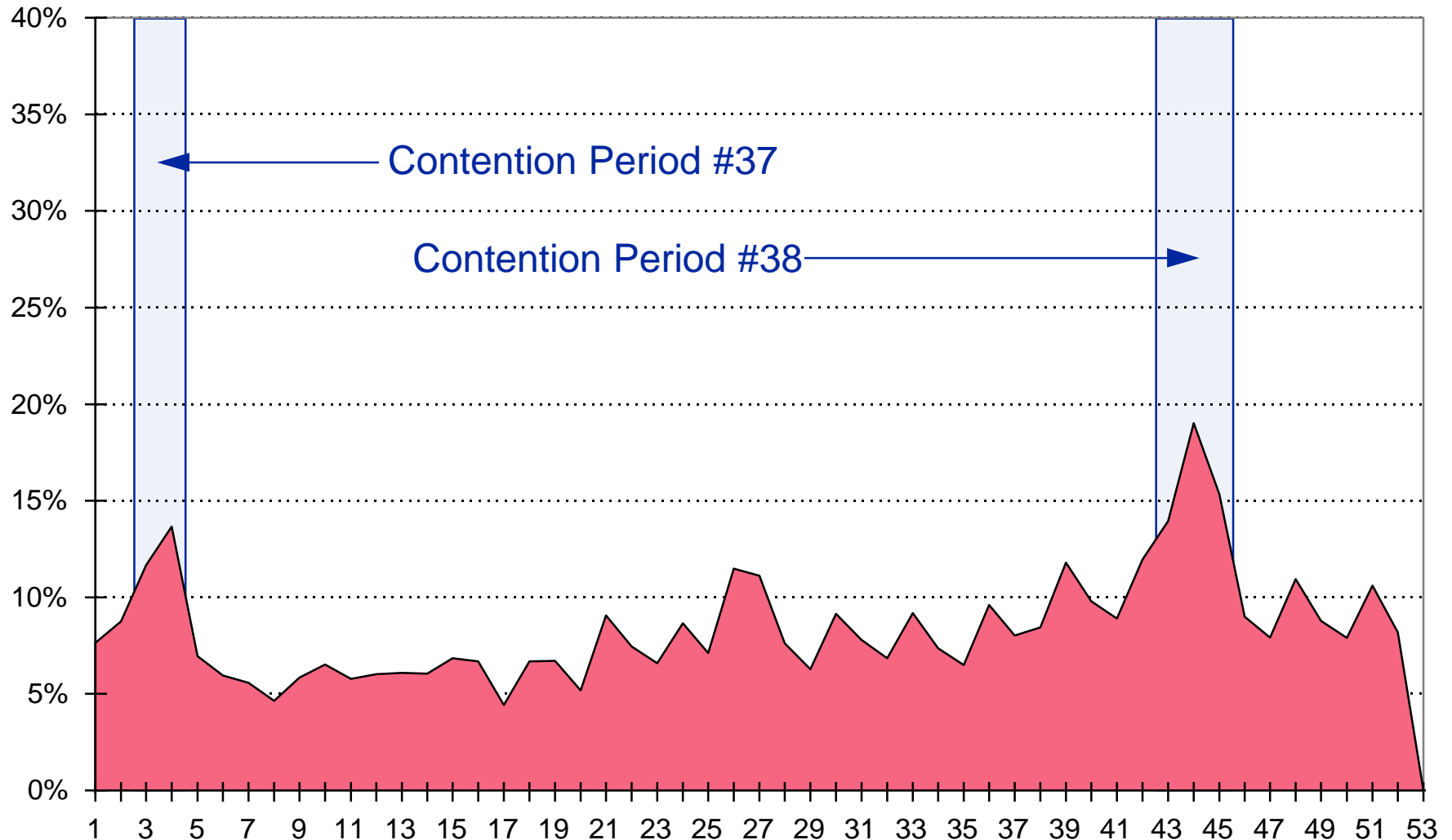| USER	RECOMMENDATION
ACE	REQUESTED SUPPORT USING DSS-16, 66
DSS	REDUCE DSS-16 AND 66 SUPPORT TO 6 HRS IN WKS 16-21 (ACE, GSIS, POLR, SOHO)
GSIS	MOVE DSS-46 SUPPORT TO DSS-34 AND USE DSS-16 FOR 8 HR SUPPORTS (ACE, DSS, POLR, SOHO)
POLR	REQUESTED SUPPORT USING DSS-27 AND 26M
SOHO	REDUCE 2 PASSES/WK TO 4 HRS (ACE, DSS)

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Resource Allocation Review
Requirements Analysis and Recommendations

2002 Activities in Contention / Recommendations

Resource Allocation Review
Requirements Analysis and Recommendations
70M Weekly Contention Percent - 2002

Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #37 - DSS-14
Mid-January (Weeks 03 - 04)

USER	CONTENTION	PASSES/WK
DSS	ROUTINE MAINTENANCE	2 - 3
EVN	ROUTINE SUPPORT, 16 HRS, DSS-14/63	2
GSSR	ASTEROID NEREUS	4 - 6
M01O	COMM RELAY SUPPORT (WK 04)	2 - 3
MAP	MANEUVER SUPPORT (WK04)	1
RASA	M-WAVE SPECT, 9 HRS	1
RASA	PLANET R/AST, 9 HRS	1

USER	RECOMMENDATION
DSS	DELETE BEARING MAINTENANCE (WK03). PERFORM ROUTINE MAINTENANCE IN NON-DAYLIGHT HOURS. ACCOMMODATE GSSR ASTEROID NEREUS (GSSR)
EVN	RESCHEDULE SUPPORT TO WK 01 (DSS,GSSR,M01O,MAP)
GSSR	REQUESTED SUPPORT
M01O	USE DSS-43,63. ACCOMMODATE GSSR AND MAP
MAP	REQUESTED SUPPORT
RASA	REQUESTED SUPPORT

Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #38 - DSS-14
### Late October - Early November (Weeks 43 - 45)

USER	CONTENTION	PASSES/WK
DSS	BEARING/ROUTINE MAINTENANCE	2 - 3
GSSR	ASTEROID 1997XF11 (DOY 298 - 312)	3 - 6
M01O	MAPPING SUPPORT	2 - 3
MAP	MANEUVER SUPPORT (WK43)	1
RASA	M-WAVE SPECT, 9 HRS	1
RASA	PLANET R/AST , 9 HRS	1
RASA	RADIO STARS WCB (WK 44), 14 HRS, (DSS-14/63)	1
RASA	VLBA WCB (WK45) (DSS-14/63)	1
VGR1	ASCAL SUPPORT (WK 44) (DOY 302)	1
VGR1	MAGROL SUPPORT (WK 44) (DOY 305)	1
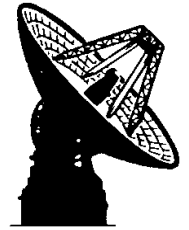
USER	RECOMMENDATION
DSS	ACCOMMODATE GSSR ASTEROID 1997XF11
GSSR	REQUESTED SUPPORT
M01O	ACCOMMODATE GSSR ASTEROID 1997XF11
MAP	REQUESTED SUPPORT
RASA	M-WAVE SPECT & PLANET R/AST - DELETE SUPPORT
RASA	RADIO STARS WCB - RESCHEDULE TO WK 46
RASA	VLBA WCB - RESCHEDULE TO WK 48
VGR1	ASCAL SUPPORT - RESCHEDULE TO DSS-63 (GSSR)
VGR1	MAGROL SUPPORT - RESCHEDULE TO DSS-25 (GSSR)

Resource Allocation Review
Requirements Analysis and Recommendations
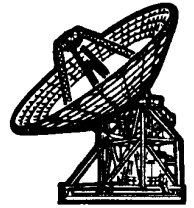### 34HEF, 34BWG1 & 2 Weekly Contention Percent - 2002
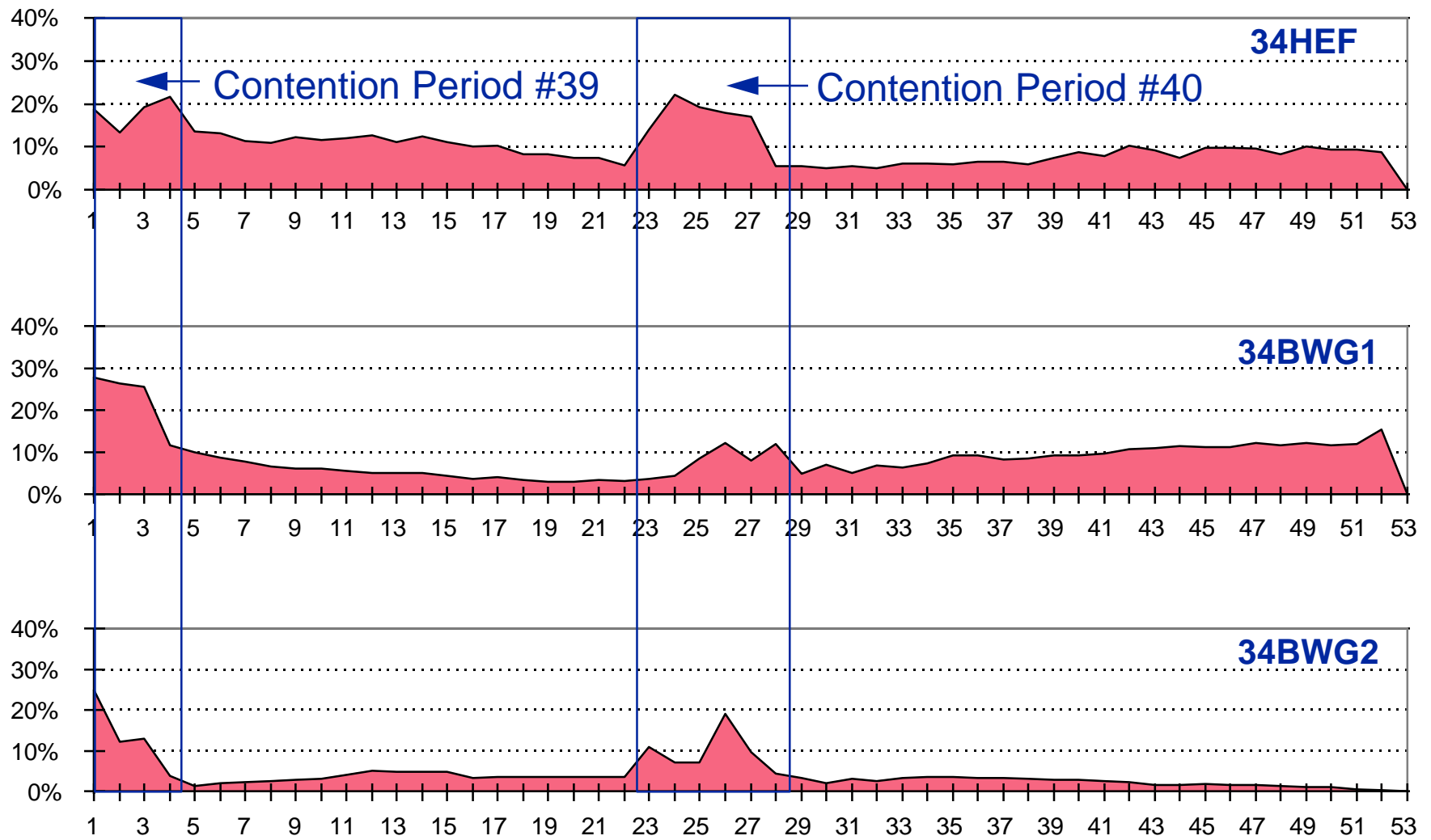
Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #39 - 34HEF, BWG1, BWG2
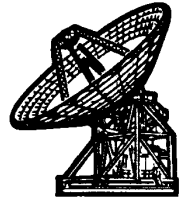### January (Weeks 01, 03, 04)

USER	CONTENTION	PASSES/WK	
CHDR	ROUTINE SUPPORT, 45 MIN	21	34B1
CAS	GRAV. WAVE (WK 01), ROUTINE, 8 - 9 HRS	1 - 15	34H,B2
DSS	MAINTENANCE, 6 - 8 HRS	7	34H,B1,B2
GSIS	ROUTINE SUPPORT, 4 HRS	1	34B1
IMAG	ROUTINE SUPPORT, 45 MIN	7	34B1
M01L	APPROACH, 4 HRS	21	34H
M01O	AEROBRAKING	21	34B1,B2
M01O	COMM RELAY (WK 04)	6	34H
M98O	COMM RELAY (WKS 03, 04), 10 HRS	4 - 7	34H
MGS	COMM RELAY(WK 01), 10 HRS	1	34B1,B2
OSSA	CRUST DYNAMICS WCB (WKS 03, 04), 24 HRS	1 - 2	34H
SRTF	LAUNCH PHASE	21	34H,B1,B2
STAR	ROUTINE SUPPORT, 6 HRS	1	34H
VGR1	ROUTINE SUPPORT, 16 HRS	7	34B1
VGR2	ROUTINE SUPPORT, 16 HRS	7	34H,B1

Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #39 - 34HEF, BWG1, BWG2
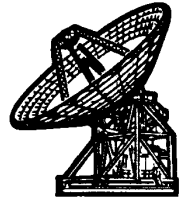### January (Weeks 01, 03, 04) (Continued)

USER	RECOMMENDATION
CHDR	REQUESTED SUPPORT
CAS	REQUESTED SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
IMAG	REQUESTED SUPPORT
M01L	REQUESTED SUPPORT
M01O	REQUESTED SUPPORT
M98O	REQUESTED SUPPORT
MGS	REQUESTED SUPPORT
OSSA	MOVE WKS 03 AND 04 SUPPORT TO WKS 06 AND 07
SRTF	REQUESTED SUPPORT USE DSS-25 WK01 VICE DSS-15 (CAS)
STAR	REQUESTED SUPPORT
VGR1	REDUCE TO ONE 6 HR DAILY SUPPORT AT DSS-24 OR 54
VGR2	REDUCE TO 6 HR SUPPORTS AND USE DSS-43

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Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #40 - 34HEF, BWG1, BWG2
### June - Mid-July (Weeks 23 - 28)

USER	CONTENTION	PASSES/WK	
CHDR	ROUTINE SUPPORT, 45 MIN	21	34B1
CAS	CONJUNCTION SUPPORT	21	34H,34B2
CNTR	LAUNCH PHASE, 4 - 8 HRS	9 - 15	34B1,B2
DSN	CAT M&E (WKS 23, 24), 24 HRS	1	34H
DSS	MAINTENANCE, HOST COUNTRY, 12 HRS	7 - 8	34H,B1,B2
GSIS	ROUTINE SUPPORT, 4 HRS	1	34B1
GSSR	GODR (WKS 24, 26, 28)	1	34H
M98O	COMM RELAY, 10 HRS	7	34H
MUSC	ROUTINE SUPPORT (WK 27), 4 HRS	6	34B1,B2
OSSA	CRUSTAL DYNAMICS WCB (WKS 24,27,28), 24 HRS	1 - 2	34H
SRTF	ROUTINE SUPPORT, 1 HR	14	34H,B1,B2
STAR	ROUTINE SUPPORT, 6 HRS	1	34H
VGR1	ROUTINE SUPPORT, 16 HRS	7	34B1
VGR2	ROUTINE SUPPORT, 16 HRS	7	34H,B1

Resource Allocation Review
Requirements Analysis and Recommendations
2002 - Contention Period #40- 34HEF, BWG1, BWG2
June - Mid-July (Weeks 23 - 28) (Continued)
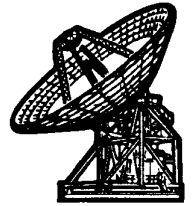
USER	RECOMMENDATION
CHDR	REQUESTED SUPPORT
CAS	REQUESTED SUPPORT
CNTR	REQUESTED SUPPORT - USE DSS-15 VICE DSS-25
DSN	DELETE CAT M&E SUPPORT
DSS	REQUESTED SUPPORT
GSIS	REQUESTED SUPPORT
GSSR	DELETE GODR SUPPORT IN WK 26
M98O	REQUESTED SUPPORT
MUSC	REQUESTED SUPPORT
OSSA	DELETE SUPPORT IN WKS 24 AND 27
SRTF	REQUESTED SUPPORT
STAR	REQUESTED SUPPORT
VGR1	REDUCE SUPPORT TO 8 HRS AT DSS-24 ONLY
VGR2	REDUCE SUPPORT TO 10 HRS. USE DSS-43 AND 34 WKS 23-25 AND 28
	REDUCE SUPPORT TO 10 HRS. USE DSS-43 WKS 26 AND 27

Resource Allocation Review

Supporting Material

May be found on the RAPSO WWW Homepage at:

http://rapweb.jpl.nasa.gov

- ◆ **Ongoing Users Negotiated Requirements**
   - **Individual User Loading Profiles**
- ◆ **Resource Allocation Review Board Information**
   - **Supplemental Yearly Information containing**
      - **Major Events Timeline**
      - **User Loading Profiles**
      - **Monthly Subnet Support Projection**